

HANSEATIC

CTV-D140S

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

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Allgemeiner Teil

Allgemeine Hinweise

Vor dem Öffnen des Gehäuses den Netzstecker ziehen!

Achtung: ESD-Vorschriften beachten 

Leitungsverlegung

Bevor Sie die Leitungen und insbesondere die Masseleitungen lösen, muss die Leitungsverlegung zu den einzelnen Baugruppen beachtet werden.

Nach erfolgter Reparatur ist es notwendig, die Leitungsführung wieder in den werkseitigen Zustand zu versetzen um evtl. spätere Ausfälle oder Störungen zu vermeiden.

Durchführen von Messungen

Bei Messungen mit dem Oszilloskop an Halbleitern sollten Sie nur Tastköpfe mit 10:1 - Teiler verwenden. Außerdem ist zu beachten, dass nach vorheriger Messung mit AC-Kopplung der Koppelkondensator des Oszilloskops aufgeladen sein kann. Durch die Entladung über das Messobjekt können Bauteile beschädigt werden.

Messwerte und Oszillogramme

Bei den in den Schaltplänen und Oszillogrammen angegebenen Messwerten handelt es sich um Näherungswerte!

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General Section

General Notes

Before opening the cabinet disconnect the mains plug!

Attention: Observe the ESD safety regulations 

Wiring

Before disconnecting any leads and especially the earth connecting leads observe the way they are routed to the individual assemblies. On completion of the repairs the leads must be laid out as originally fitted at the factory to avoid later failures or disturbances.

Carrying out Measurements

When making measurements on semi-conductors with an oscilloscope, ensure that the test probe is set to 10:1 dividing factor. If the previous measurement was made on AC input, please note that the coupling capacitor in the oscilloscope will be charged. Discharge via the item being checked can damage the components.

Measured Values and Oscillograms

The measured values given in the circuit diagrams and oscillograms are approximates!

Technische Daten / Technical Data

	Davio 14 TVD 37-2401 Text uv2	Davio 14 TVD 37-2501 FR/Text	Elegance 21 TVD 55-2401/5 Top uv3	Elegance 21 TVD 55-2501 FR/Top
Order Number	GBC3200	GBC5900	GBC3300	GBC6000
EAN	40 13833-59703 2	40 13833-59798 8	40 13833-59104 9	40 13833-59799 5
Colour	procon silver	procon silver	procon silver	procon silver
Destination	D, NL, DK, N, FIN, S, E, P, ROW	F	D, I, NL, DK, N, FIN, S, E, P, ROW	F
User manual languages	D, GB, NL, DK, N, S, FIN, E, P	F	D, GB, I, NL, DK, N, S, FIN, E, P	F
Sound	MONO	MONO	STEREO	STEREO
Remote Control	RC 45 C / TP 165 C	RC 45 C / TP 165 C	RC 45 C / TP 165 C	RC 45 C / TP 165 C
PICTURE				
Size / Type	37 cm (14"), FST, (4:3)	37 cm (14"), FST, (4:3)	55 cm (21"), FST, (4:3)	55 cm (21"), FST, (4:3)
Real flat / Super flat	○	○	● / ○	● / ○
Deflection	90°	90°	90°	90°
100 Hz Picture-/32 kHz line frequency	○	○	○	○
Flicker free scanning (full frame memory)	○	○	○	○
Digital Color Transition Improv. (DCTI)	○	○	○	○
Digital Combfilter	○	○	○	○
Digital Luminance Transition Improv. (DLTI)	○	○	○	○
Picture Noise Reduction	○	○	○	○
SVM (Scan Velocity Moduladion)	○	○	○	○
Dynamic Focus	○	○	○	○
Preset picture modes	○	○	○	○
Tilt	○	○	○	○
Picture Formats	○	○	○	○
PIP (2 Tuner)	○	○	○	○
Multifold Tuner scan (Mosaic Picture)	○	○	○	○
PAT: Split screen (PICTURE + TEXT)	○	○	○	○
PAP: Double Window (PICTURE + PICTURE)	○	○	○	○
P ² AT: Double window + TXT	○	○	○	○
POP: PICTURE on PICTURE	○	○	○	○
Picture freezing	○	○	○	○
Zoom with point function	○	○	○	○
Auto 16:9 selection via Scart	●	●	●	●
Automatic Color Standard Detection	●	●	●	●
Sharpness control	●	●	●	●
Blue Background	○	○	○	○
CHASSIS				
TV-Chassis	D5 (50 Hz) 90°	D5 (50 Hz) 90°	D5 (50 Hz) 90°	D5 (50 Hz) 90°
Tuner	PLL frequency synthesizer tuning	PLL frequency synthesizer tuning	PLL frequency synthesizer tuning	PLL frequency synthesizer tuning
µ-Processor	Philips UOC OM836x	Philips UOC OM836x	Philips UOC OM836x	Philips UOC OM836x
Keyboard	10 keys; TV/DVD, menue, prog/vol, plus, minus, eject, play/pause, stop, skip-fw, skip-bw	10 keys; TV/DVD, menue, prog/vol, plus, minus, eject, play/pause, stop, skip-fw, skip-bw	10 keys; TV/DVD, menue, prog/vol, plus, minus, eject, play/pause, stop, skip-fw, skip-bw	10 keys; TV/DVD, menue, prog/vol, plus, minus, eject, play/pause, stop, skip-fw, skip-bw
ELECTRONIC				
Stand by indicator	red LED	red LED	red LED	red LED
Manual & autom. labeling of prog.	5 character	5 character	5 character	5 character
Programmable off timer	●	●	●	●
Programmable on timer	●	●	●	●
Intelligent channel search (Zapping funct.)	○	○	○	○
Program Edit	●	●	●	●
Intelligent Programme Switch	○	○	○	○
Auto switch off	●	●	●	●
Program memory TV/AV (opt.)	100/AV	100/AV	100/AV	100/AV
Teletext/Fasttext/Toptext	1 page / ○ / ○	1 page / ○ / ○	○ / ○ / 7 pages	○ / ○ / 7 pages
Teletext options	○	○	○	○
Teletext SWAP	○	○	○	○
Childlock	●	●	●	●
Menue languages OSD	7 languages: D, GB, F, I, E, P, NL	7 languages: D, GB, F, I, E, P, NL	7 languages: D, GB, F, I, E, P, NL	7 languages: D, GB, F, I, E, P, NL
SWAP (Recall function)	●	●	●	●
Service mode	●	●	●	●
Hotel mode	○	○	○	○
TUNING				
Autom. Tuning System with country selection	●	●	●	●
Frequency Based Auto Search	○	○	○	○
Automatic Micro-search	●	●	●	●
Automatic Programing	○	○	○	○

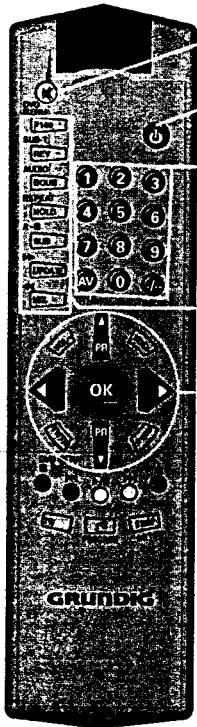
	Davio 14 TVD 37-2401 Text UV2	Davio 14 TVD 37-2501 FR/Text	Elegance 21 TVD 55-2401/5 Top UV3	Elegance 21 TVD 55-2501 FR/Top
Manual fine tuning	●	●	●	●
Direct channel selection	●	●	●	●
PAL/BG	●	●	●	●
SECAM/L/L	○	●	○	●
NTSC-Playback via Scart (3,58/4,43)	●	●	●	●
Cable TV / Hyperband (S1-S41)	●	●	●	●
AUDIO				
Mono/Stereo/Nicam	● / ○ / ○	● / ○ / ○	● / ● / ●	● / ● / ●
AV Stereo	●	●	●	●
Virtual Dolby	○	○	○	○
Subwoofer	○	○	○	○
Dynamic Bass	○	○	○	○
DSP (Digital Sound Processor)	○	○	○	○
Balance Adjustment	○	○	○	○
AVL (Audio Volume Level)	●	●	●	●
PIP listening via Headphone jack	○	○	○	○
Equalizer	○	○	○	○
Space Sound Effect	○	○	○	○
Audio mode	○	○	○	○
Audio amplifier without extern LS	2 x 5 W (RMS)	2 x 5 W (RMS)	2 x 8 W (RMS)	2 x 8 W (RMS)
Tweeter (2 way speaker system)	○	○	○	○
DVD				
4:3 / 16:9 / letterbox format	●	●	● / ● / ●	● / ● / ●
Dolby Digital	●	●	●	●
Disc formats:				
DVD R/RW (+/-)	●	●	●	●
CD-R	●	●	●	●
CD-RW	●	●	●	●
Media formats:				
DVD-Video	●	●	●	●
VCD	●	●	●	●
SVC	●	●	●	●
CD-Audio	●	●	●	●
CD-ROM	JPEG, MP3 playback	JPEG, MP3 playback	JPEG, MP3 playback	JPEG, MP3 playback
Freeze / Zoom	● / ●	● / ●	● / ●	● / ●
Coaxial / Optical audio out	● / ○	● / ○	● / ○	● / ○
Region Code	Factory setting: RC 2	Factory setting: RC 2	Factory setting: RC 2	Factory setting: RC 2
POWER SUPPLY / CABINET				
Power voltage	230V~, 50/60 Hz	230V~, 50/60 Hz	230V~, 50/60 Hz	230V~, 50/60 Hz
Power switch	●	●	●	●
Power consumption	55 W, standby 2 W in accordance to IEC 62087-2002	55 W, standby 2 W in accordance to IEC 62087-2002	73 W, standby 2 W in accordance to IEC 62087-2002	73 W, standby 2 W in accordance to IEC 62087-2002
Cabinet (WxHxD, cm) / Weight	39,1 x 39,5 x 38,2 cm approx. 12,3 kg	39,1 x 39,5 x 38,2 cm approx. 12,3 kg	61,1 x 46,4 x 52,6 cm approx. 24,6 kg	61,1 x 46,4 x 52,6 cm approx. 24,6 kg
FRONT PANEL CONNECTIONS				
Headphones	●, position lateral	●, position lateral	●, position lateral	●, position lateral
Cinch-AV socket	3 x Cinch - Video in, Audio L/R in (position lateral)	3 x Cinch - Video in, Audio L/R in (position lateral)	3 x Cinch - Video in, Audio L/R in (position lateral)	3 x Cinch - Video in, Audio L/R in (position lateral)
S-Video	○	○	○	○
REAR PANEL CONNECTIONS				
Euro-AV-Socket AV1	CVBS in-/output, RGB input	CVBS in-/output, RGB input	CVBS in-/output, RGB input	CVBS in-/output, RGB input
Euro-AV Socket AV2	○	○	CVBS in-/output, S-Video input	CVBS in-/output, S-Video input
Euro-AV Socket AV3	○	○	○	○
S-Video	○	○	○	○
Digital Audio out	Yes, coaxial	Yes, coaxial	Yes, coaxial	Yes, coaxial
Audio out	○	○	○	○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Power supply plug	○	○	○	○
SUPPLIED ACCESSORIES				
Remote control (incl. battery)	●	●	●	●
Power cord	○ / fix mounted	○ / fix mounted	○ / fix mounted	○ / fix mounted
Telescopic antenna	●	●	○	○
Instruction manual	●	●	●	●
Warranty info	●	●	●	●

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Die Fernbedienung

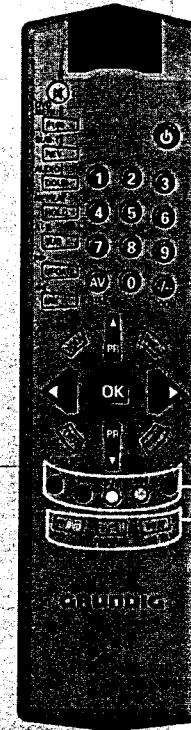
Fernseh-Betrieb

-  Ton ein/aus (stummschalten).
-  Schaltet das Fernsehgerät ab (Stand-by).
- 0...9** Schalten das Fernsehgerät aus Stand-by ein; wählen Programme direkt.
- AV** Wählt AV-Programmplätze und das zuletzt gesehene Fernseh-Programm.
- /--** Schaltet zwischen ein- und zweistelligen Programmplätzen um.
- P 100** Blendet Programmplatz-Informationen ein; schaltet auf Videotext-Seite 100 im Videotext-Betrieb.
- REV** Antwortfreigabe im Videotext-Betrieb.
- DOUB** Schaltet auf doppelte Zeichengröße im Videotext-Betrieb.
- HOLD** Seitenstop im Videotext-Betrieb.
- SUB** Blendet die Uhrzeit ein; wählt Unterseiten im Videotext-Betrieb.
- UPDATE** Aktualisiert eine Seite im Videotext-Betrieb.
- MIX** Wählt im Videotext-Betrieb die Mix-Funktion (Fernsehbild und Videotext).
- VOL - +** Ändern die Lautstärke.
- PR ▲** Schalten das Fernsehgerät aus Stand-by ein; wählen Programme schrittweise; bewegen Cursor nach oben/unten.
- PR ▼**
- OK** Ruft die Programmbelegung auf; aktiviert verschiedene Funktionen.
- ◀ ▶** Bewegen Cursor nach links/rechts.
- TV/TX** Schaltet um zwischen Videotext-Betrieb und TV-Betrieb; Blendet das Menü aus.
- TV MENU** Ruft das TV Menü auf; schaltet im TV Menü eine Seite zurück.

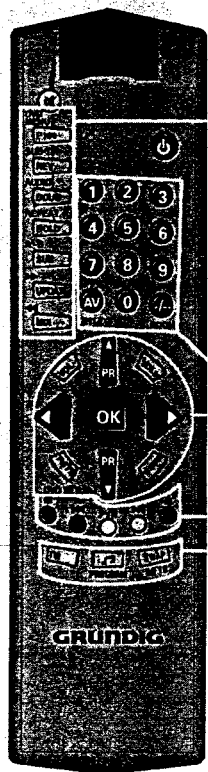


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- **Rot** Ruft das Menü »TON« auf; blättert im Videotext-Betrieb eine Seite zurück.
- **Grün** Ruft das Menü »BILD« auf; blättert im Videotext-Betrieb zur nächsten Seite.
- **Gelb** Ruft das Menü »PROGRAMM BELEGUNG« auf; Wählt gewünschtes Kapitel im Videotext-Betrieb.
- **Blau** Ruft das Menü »SUCHLAUF« auf; wählt gewünschtes Thema im Videotext-Betrieb.
- **Violett** Ruft das Menü »SONDERFUNKTIONEN« auf.
- TV/DVD** Schaltet die Fernbedienung um von Fernseh-Betrieb auf DVD-Betrieb und zurück.
-  Wählt verschiedene Toneinstellungen.
- SWAP** Schaltet um zwischen den beiden zuletzt gesehene Fernseh-Programmen.



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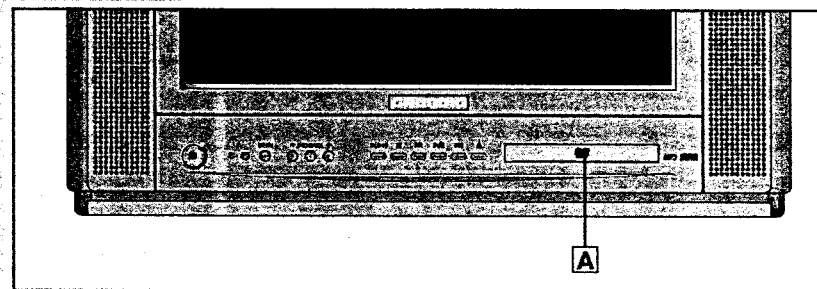
DVD-Betrieb

- DVD MENU** Ruft während der Wiedergabe das Discmenü* einer DVD auf.
- SUB-T** Zum Anwählen und Einblenden von Untertiteln* der DVD während der Wiedergabe.
- AUDIO** Schaltet während der Wiedergabe um zwischen Original- und Synchronsprache* einer DVD.
- REPEAT** Wählt Wiederhol-Funktionen an
- A - B** Zum Markieren und wiederholten Abspielen von Abschnitten.
- ▶▶** Schaltet während der Wiedergabe auf Bildsuchlauf vorwärts in verschiedenen Geschwindigkeiten.
- ◀◀** Schaltet während der Wiedergabe auf Bildsuchlauf rückwärts in verschiedenen Geschwindigkeiten.
- 0...9** Ziffern-Tasten für verschiedene Eingaben.
- Title** Ruft während der Wiedergabe das Titelmanü* der DVD auf.
- Zoom** Vergrößert Szenen bei der Wiedergabe.
- ◀ ▶ PR ▲ ▼** Wählen in den Menüs verschiedene Funktionen.
- OK** Bestätigt Funktionen.
- DVD SETUP** Ruft das Hauptmenü des DVD-Teiles auf.
- Unterbricht jede Lauffunktion.
- ◀◀** Wählt während der Wiedergabe den vorherigen Titel/Abschnitt.
- ▶ / II** Startet die Wiedergabe; Standbild bei DVDs und Video-CDs; Pause bei Audio-CDs und MP3-CDs.
- ▶▶** Wählt während der Wiedergabe den nächsten Titel/Abschnitt.
- ▲** Zum Öffnen und Schließen der Schublade.
- TV/DVD** Schaltet die Fernbedienung um von Fernseh-Betrieb auf DVD-Betrieb und zurück.
- PROGRAM** Zum Programmieren einer Wiedergabeliste für die eingelegte Disc.
- GO TO** Ruft das Info-Menü des DVD-Teiles auf.

* abhängig von der verwendeten DVD

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Die Vorderseite des Fernsehgerätes



- ①** Schaltet das Fernsehgerät in Stand-by und wieder aus.
- MENU** Ruft das TV Menü auf, schaltet im TV Menü eine Seite zurück. Ruft das Hauptmenü des DVD-Teiles auf.
- PROG/VOL -** Vorwahlste für Programmwahl oder Lautstärke. Programmwahl abwärts; Lautstärke verringern.
- +** Schaltet das Fernsehgerät aus Stand-by ein; Programmwahl aufwärts; Lautstärke vergrößern.
- TV/DVD** Schaltet das Gerät um von Fernseh-Betrieb auf DVD-Betrieb und zurück.
- Unterbricht jede Lauffunktion.
- ◀◀** Wählt während der Wiedergabe den vorherigen Titel/Abschnitt.
- ▶ / II** Startet die Wiedergabe; Standbild bei DVDs und Video-CDs; Pause bei Audio-CDs und MP3-CDs; aktiviert Menü-Funktionen.
- ▶▶** Wählt während der Wiedergabe den nächsten Titel/Abschnitt.
- ▲** Zum Öffnen und Schließen der Schublade.
- A** Schublade für CD-Medien.
- 🔊** Kopfhöreranschluss (3,5 mm ø Klinke).
- VIDEO** Bildsignaleingang für Camerarecorder.
- R AUDIO L** Tonsignaleingang für Camerarecorder.

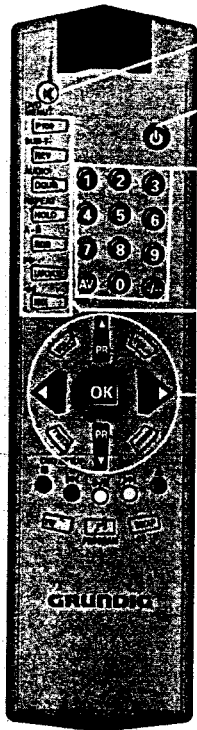
Operating Hints

This chapter contains excerpts from the operating instructions.

For further particulars please refer to the appropriate user instructions the part number of which is indicated in the relevant spare parts list.

OVERVIEW

The remote control

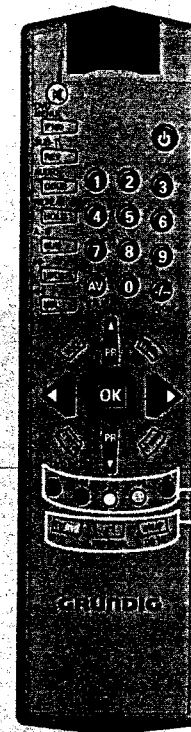


TV operation

- Sound on/off (mute).
- Switches off the television set (stand-by).
- 0...9** Switches the television on from stand-by mode.
Selects channels directly.
- AV** Selects the AV channels and the most recently viewed television channel.
- /--** Switches between single- and double-digit preset channels.
- P 100** Shows information on preset channels.
Selects page 100 in teletext mode.
- REV** Reveals answers in teletext mode.
- DOUB** Switches to double character size in teletext mode.
- HOLD** Holds pages in teletext mode.
- SUB** Shows the time.
Selects sub-pages in teletext mode.
- UPDATE** Updates the page in teletext mode.
- MIX** Selects the mix function in teletext mode (TV picture and teletext).
- VOL - +** Adjusts the volume.
- PR ▲** Switch the television on from standby.
PR ▼ Select channels step-by-step.
Move the cursor up and down.
- OK** Calls up the station list.
Activates various functions.
- ◀ ▶** Move cursor to the left/right.
- TV/TX** Switches between teletext and TV modes.
Hides the menu.
- TV MENU** Opens the menu.
Switches to previous TV menu page.

5
ENGLISH

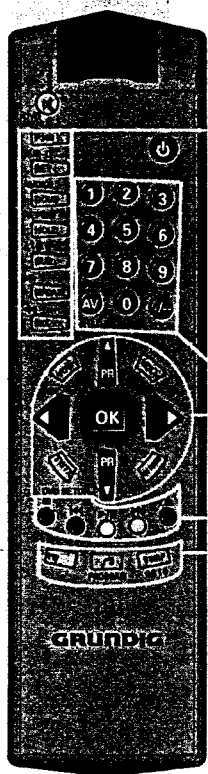
OVERVIEW



- **Red** Opens the »SOUND« menu.
Moves back a page in teletext mode.
- **Green** Opens the »PICTURE« menu.
Moves to the next page in teletext mode.
- **Yellow** Opens the »PROGRAM EDIT« menu.
Selects a chapter in teletext mode.
- **Blue** Opens the »SETUP« menu.
Selects a topic in teletext mode.
- **Purple** Opens the »FEATURES« menu.
- TV/DVD** Switches the remote control from TV mode to DVD mode and back.
- Selects various sound settings.
- SWAP** Switches between the two most recently viewed TV channels.

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OVERVIEW



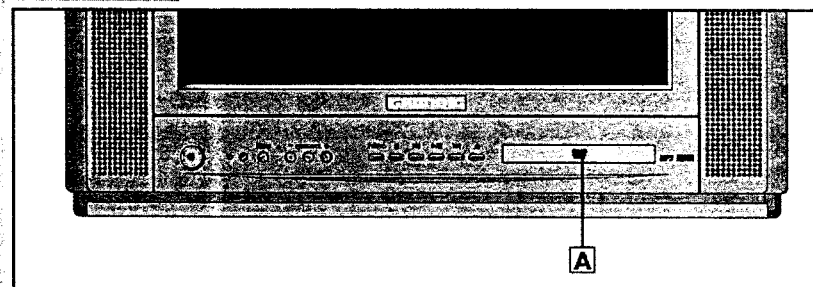
DVD mode

- DVD MENU** During playback, opens the disc menu* of the DVD.
- SUB-T** For selecting and displaying subtitles* of the DVD during playback.
- AUDIO** Switches between the original and the dubbed language* during DVD playback.
- REPEAT** Selects repeat functions.
- A - B** For marking sections for repeated playback.
- ▶▶** Switches to forward frame search at various speeds during playback.
- ◀◀** Switches to reverse frame search at various speeds during playback.
- 0...9** Numerical keys for various inputs.
- Title** Calls up the DVD title menu* during playback.
- Zoom** Zooms in on scenes during playback.
- ◀ ▶** Select various functions in the menus.
- PR ▲ ▼**
- OK** Confirms functions.
- DVD SETUP** Opens the main menu on the DVD unit.
- Interrupts all drive functions.
- ◀◀** Selects the previous title or section during playback.
- ▶ / II** Starts playback.
Freeze-frame for DVDs and video CDs.
Pause for audio CDs and MP3 CDs.
- ▶▶** Selects the next title or section during playback.
- ▲** Opens and closes the disc compartment.
- TV/DVD** Switches the remote control from TV mode to DVD mode and back.
- PROGRAM** For programming a playback list for the inserted disc.
- GO TO** Opens the info menu of DVD unit.

* Depends on the DVD in use

OVERVIEW

The front of the television set



- ①** Switches the television into and out of standby mode.
- MENU** Opens the TV menu, switches to the previous page in the TV menu.
Opens the main menu of the DVD unit.
- PROG/VOL -** Preset button for volume or channel selection.
Channel selection down.
Reduce volume.
- +** Switches the television on from stand-by.
Channel selection up.
Increase volume.
- TV/DVD** Switches the device from TV mode to DVD mode and back.
- Interrupts all drive functions.
- ◀◀** Selects the previous title or section during playback.
- ▶ / II** Starts playback.
Freeze-frame for DVDs and video CDs.
Pause for audio CDs and MP3 CDs;
activates menu functions.
- ▶▶** Selects the next title or section during playback.
- ▲** Opens and closes the disc compartment.
- A** Compartment for CD media.
- 🎧** Headphone jack (3.5 mm ø jack plug).
- VIDEO** Video signal input for camcorder.
- R AUDIO L** Audio signal input for camcorder.

Service- und Sonderfunktionen

Service Mode aktivieren: Taste "i" (Hauptmenü) drücken → Service Code "8500" eingeben.

Service Mode beenden: Taste "TXT" drücken.

1. Grundeinstellwerte

Folgende Tabelle zeigt alle typenbezogenen Grundeinstellungen im Service Mode. Alle mit * gekennzeichneten Werte müssen zusätzlich nach Abgleich (Seite 2-1) eingestellt werden.

Service and Special Functions

Start of the Service Mode: Press button "i" (Main Menu) → Enter Service Code "8500".

End the Service Mode: Press button "TXT".

1. Basic Settings

The following table shows all type specific basic settings in the service mode. In addition all values marked with * must be adjusted according to adjustment (page 2-1).

SERVICE P+ / P-	Menüpunkt Point of Menu P+ / P-	Einstellung Adjustment ◀ / ▶	Hinweis Hint	DAVIO 14 TVD 37-2401 Text	DAVIO 14 TVD 37-2501 FR/Text	ELEGANCE 21 Flat TVD 55-2401/5 Top	ELEGANCE 21 Flat TVD 55-2501 FR/ Top
0	TUNER	PANASONIC PHILIPS (Thomson) SHARP TEMIC	eingebauten Tuner wählen select used tuner				
1	AGC	siehe Abgleich / see Adjustment		35	35	35	35
2	STD	STD-BY On STD-BY Off	Netzschalter-Ein → Standby power switch ON → standby				
3	EEPE	00 01	EEPROM-Reset	X	X	X	X
4	PEAK	siehe Abgleich / see Adjustment	Bildschärfe / Peaking	32	32	32	32
5	HEAD	YES NO	Kopfhörer / Headphone	X	X	X	X
6	SCRN	ON OFF	benötigt für Schirmgitter-Abgleich used for screen adjustment	X	X	X	X
7	GRN	siehe Abgleich / see Adjustment	Grün-Pegel / Green level	32*	32*	32*	32*
8	RED	siehe Abgleich / see Adjustment	Rot-Pegel / Red level	30*	30*	30*	30*
9	BLUE	siehe Abgleich / see Adjustment	Blau-Pegel / Blue level	30*	30*	30*	30*
10	BLOG	siehe Abgleich / see Adjustment	Grün / Green cut off	30*	30*	30*	30*
11	BLOR	siehe Abgleich / see Adjustment	Rot / Red cut off	36*	36*	36*	36*
12	YDLY		Luminanz-Verzögerung / Luminance delay	14	14	14	14
13	SAT		Farbsättigung / Saturation	20	20	20	20
14	HUE		Bildschärfe / Sharpness	32	32	32	32
15	CON		Kontrast / Contrast	32	32	32	32
16	CDR		Kathode-Pegel / Cathode drive level	02	02	02	02
17	BRI		Helligkeit / Brightness	32	32	32	32
18	EWT	siehe Abgleich / see Adjustment	Ost/West Trapez / East West Trapezium	28*	28*	28*	28*
19	EWCU	siehe Abgleich / see Adjustment	Ecken oben / Upper corner	32*	32*	32*	32*
20	EWCL	siehe Abgleich / see Adjustment	Ecken unten / Lower corner	32*	32*	32*	32*
21	EWPW	siehe Abgleich / see Adjustment	Ost/West Parabel 4.3 / East west parabola width 4.3	17*	17*	17*	17*
22	HSHT	siehe Abgleich / see Adjustment	Bildposition horizontal / Horizontal shift	32*	32*	32*	32*
23	EWV	siehe Abgleich / see Adjustment	Bildbreite / Horizontal width	60*	60*	60*	60*
24	VAMP	siehe Abgleich / see Adjustment	Bildhöhe / Vertical amplitude	35*	35*	35*	35*
25	SCOR	siehe Abgleich / see Adjustment	S-Korrektur / S correction	25*	25*	25*	25*
26	VSHT	siehe Abgleich / see Adjustment	Bildposition vertikal / Vertical shift	28*	28*	28*	28*
27	VSLP	siehe Abgleich / see Adjustment	Bildmitte / Vertical slope	34*	34*	34*	34*
28	RGB	siehe Abgleich / see Adjustment	OSD Helligkeit / Brightness	01	01	01	01
29	VZOM	siehe Abgleich / see Adjustment	Vertikal Zoom / Vertical zoom	35*	35*	35*	35*
30	SSTD	BG-ONLY I-ONLY BG + DK BG + LL ALL SYS.		X		X	
31	STYP	NICAM On NICAM Off		X	X	X	X
32	TOPTXT	YES NO		X	X	X	X
33	TXT table	WEST EAST		X		X	
34	PWLT		Strahlstrombegrenzung / Peak white limiting	09	09	09	09
35	IFO		Offset ZF-Demodulator / Offset IF demodulator	32	32	32	32
36	HPAR	siehe Abgleich / see Adjustment	Schräglage vertikal / Horizontal parallelogram	32*	32*	32*	32*
37	HBOW	siehe Abgleich / see Adjustment	Horizontale Biegung / Horizontal bow	32*	32*	32*	32*
38	HOTEL	ON OFF		X	X	X	X
39	SUBWOOFER	YES NO		X	X	X	X

* Mittelwert / Average Value

SERVICE P+ / P-	Menüpunkt Point of Menu P+ / P-	Einstellung Adjustment ◀ / ▶	Hinweis Hint	DAVIO 14 TVD 37-2401 Text	DAVIO 14 TVD 37-2501 FR/Text	ELEGANCE 21 Flat TVD 55-2401/ 5 Top	ELEGANCE 21 Flat TVD 55-2501 FR/ Top
40	CRT	4:3 16:9		X	X	X	X
41	TEST	siehe Abgleich / see Adjustment		35*	35*	35*	35*
42	AAV	YES NO	automatische AV-Umschaltung automatic AV switching	X	X	X	X
43	PAL	YES NO	nur PAL / PAL only andere Versionen / other versions	X		X	
44	EWP1	siehe Abgleich / see Adjustment	16:9 Ost/West Parabel (für 4:3 Geräte) 16:9 East west parabola width (for 4:3 sets)	08*	08*	08*	08*
45	DBAS	YES NO	Dynamik-Bass / Dynamic bass	X	X	X	X
46	VOL	siehe Abgleich / see Adjustment	Volume Pegel Volume level	50	50	50	50
47	SCART 2	ON OFF	SCART - 2	X	X	X	X
48	F-AV	ON OFF	Front - AV	X	X	X	X
49	F-SVHS	ON OFF	Front - SVHS	X	X	X	X
50	AV ST CURVE	HIGH LOW	Ändert Linearität bei Lautstärke +/- Changes linearity of volume +/-	X	X	X	X
51	NTSC	YES NO	NTSC Wiedergabe NTSC Playback	X	X	X	X
52	OPENNING	YES NO		X	X	X	X

* Mittelwert / Average Value

2. Programmsuchlauf (ATS)

Tasten "i" (Hauptmenü) → P+ / P- "SUCHLAUF" → "OK" → P+ / P- "PROGRAMMSUCHLAUF" → "OK" → P+ / P- ◀ / ▶ Land auswählen und mit "OK" Suchlauf starten.
Das automatische Sendersuchsystem stoppt bei jedem empfangswürdigen Sender (AFC und Koinzidenz) und speichert automatisch die entsprechenden Senderdaten mit dem jeweiligen Standard. Danach wird der Suchlauf fortgesetzt.
Tastendruck "i" bricht den ATS-Lauf ab.

3. Software-Versionsnummer

Die Software-Versionsnummer wird nach Beenden des Service Modus angezeigt:

VER SD5965_G02
OF96
T01031711

2. Autoprogram (ATS)

Buttons "i" (Main menu) → P+ / P- "SETUP" → "OK" → P+ / P- "AUTOPROGRAM" → "OK" → P+ / P- ◀ / ▶ select Country and start search with "OK".

The autoprogram system stops at every station of acceptable reception quality (AFC and coincidence) and stores the station data and the respective standard automatically. The system then continues searching.

Pressing the "i" button stops the ATS function.

3. Software Version Number

The software version number is shown after ending the service mode:

VER SD5965_G02
OF96
T01031711

Sicherheits-Hinweis

Die in den Fernsehgeräten auftretende Röntgenstrahlung entspricht den Bestimmungen der Physikalisch-Technischen Bundesanstalt vom 8. Januar 1987.

Die Hochspannung für die Bildröhre und die damit auftretende Röntgenstrahlung ist abhängig von der exakten Einstellung der Netzteilspannung +B.

Nach jeder Reparatur im Netzteil oder in der Horizontalablenkung ist die Hochspannung zu messen und gegebenenfalls einzustellen. Schutzschaltungen im Gerät dürfen nur kurzzeitig außer Betrieb gesetzt werden, um Folgeschäden am Chassis oder an der Bildröhre zu vermeiden.

Beim Austausch der Bildröhre dürfen nur die in den Ersatzteillisten vorgeschriebenen Typen verwendet werden.

Safety Advice

The X-radiation developing in the sets conforms to the X-radiation Regulations (January 8, 1987), issued by the Physikalisch-Technische Bundesanstalt (federal physiotecchnical institution).

The high tension for the picture tube and thus the developing X-radiation depends on the precise adjustment of the +B power supply. After every repair of the power supply unit or the horizontal deflection stage it is imperative that the EHT for the picture tube is checked and re-adjusted if necessary.

To avoid consequential damages to the chassis or the picture tube the integrated protective circuits are allowed to be put out of operation only for a short time.

When replacing the picture tube use only the types specified in the spare parts lists.

IC Data Sheets & Specifications

IC 101 - OM 8365

The OM8365H combine the functions of a video processor together with a μ -Controller, US Closed Caption decoder and Teletext decoder. The Teletext decoder has an internal RAM memory for 10 page text. The ICs are intended to be used in economy television receivers with 110° picture tubes. The ICs have supply voltages of 8V and 3.3V and they are mounted in a QFP 80 envelope.

TV-Signal Processor

- Multi-standard vision IF circuit with alignment-free PLL demodulator.
- Internal (switchable) time-constant for the IF-AGC circuit.
- The QSS and mono FM functionality are both available so that an FM/AM TV receiver can be built without the use of additional ICs
- The mono intercarrier sound circuit has a selective FM-PLL demodulator which can be switched to the different FM sound frequencies (4.5/5.5/6.0/6.5MHz). The quality of this system is such that the external band-pass filters can be omitted.
- The FM-PLL demodulator can be set to centre frequencies of 4.74/5.74MHz so that a second sound channel can be demodulated. In such an application it is necessary that an external band-pass filter is inserted.
- The vision IF and mono intercarrier sound circuit can be used for the demodulation of FM radio signals.
- Video switch with 2 external CVBS inputs and a CVBS output. One of the CVBS inputs can be used as Y/C input.
- 2 external audio inputs. The selection of the various inputs is coupled to the selection of the CVBS signals.
- Integrated chrominance trap circuit.
- Integrated luminance delay line with adjustable delay time.
- Picture improvement features with peaking (with switchable centre frequency, depeaking, variable positive/negative overshoot ratio and video dependent coring) and white stretching.
- Switchable group delay correction in the CVBS path.
- Integrated chroma band-pass filter with switchable centre frequency.
- Switchable DC transfer ratio for the luminance signal.
- Only one reference (12MHz) crystal required for the μ -Controller, Teletext- and the colour decoder.
- Multi-standard colour decoder with automatic search system.
- Internal base-band delay line.
- Indication of the Signal-to-Noise ratio of the incoming CVBS signal.
- A linear RGB/YUV/YBPBR input with fast blanking for external RGB/YUV sources. The synchronisation circuit can be connected to the incoming Y signal. The Text/OSD signals are internally supplied from the μ -Controller / Teletext decoder.
- RGB control circuit with 'Continuous Cathode Calibration', white point and black level off-set adjustment so that the colour temperature of the dark and the light parts of the screen can be chosen independently.
- Contrast reduction possibility during mixed-mode of OSD and Text signals.
- Adjustable 'wide blanking' of the RGB outputs.
- Horizontal synchronization with two control loops and alignment-free horizontal oscillator.
- Vertical count-down circuit.
- Vertical driver optimized for DC-coupled vertical output stages.
- Horizontal and vertical geometry processing.
- Horizontal and vertical zoom function for 16:9 applications.
- Horizontal parallelogram and bow correction for large screen picture tubes.
- Low-power start-up of the horizontal drive circuit.

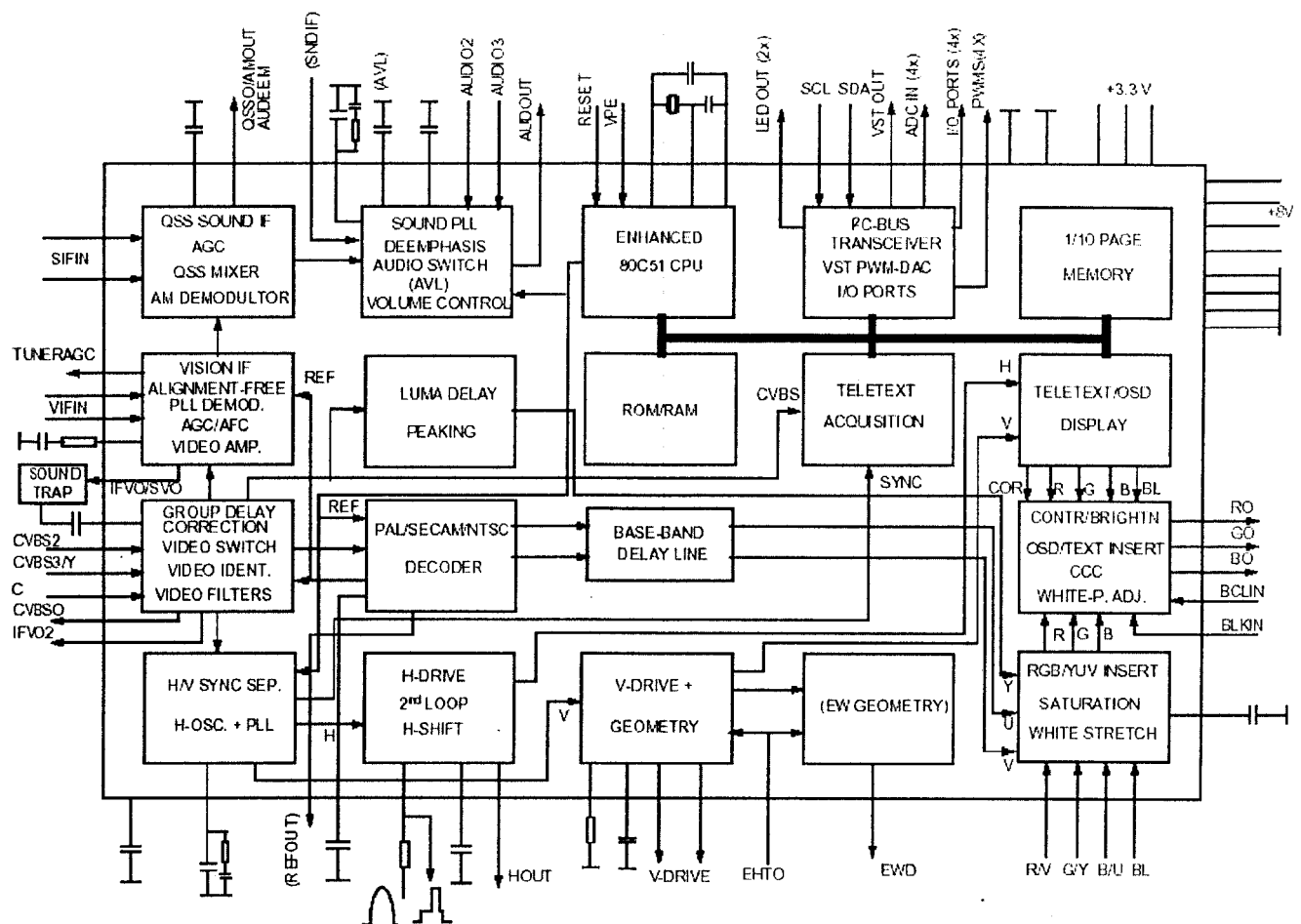
μ -Controller

- 80C51 μ -controller core standard instruction set and timing.
- 1 μ s machine cycle.
- 64 - 96Kx8-bit late programmed ROM.
- 12Kx8-bit DataRAM (shared between Display, Acquisition and Auxiliary RAM).
- Interrupt controller for individual enable/disable with two level priority.
- Two 16-bit Timer/Counter registers.
- One 16-bit Timer with 8-bit Pre-scaler.
- WatchDog timer.
- Auxiliary RAM page pointer.
- 16-bit Data pointer.

- Stand-by, Idle and Power Down modes.
- 14 bits PWM for Voltage Synthesis Tuning.
- 8-bit A/D converter with 4 multiplexed inputs.
- 5 PWM (6-bits) outputs for control of TV analogue signals.
- 18 general I/O ports.

Data Capture

- Text memory for 10 pages.
- Inventory of transmitted Teletext pages stored in the Transmitted Page Table (TPT) and Subtitle Page Table (SPT).
- Data Capture for US Closed Caption.
- Data Capture for 525/625 line WST, VPS (PDC system A) and Wide Screen Signalling (WSS) bit decoding.
- Automatic selection between 525 WST/625 WST.
- Automatic selection between 625 WST/VPS on line 16 of VBI.
- Real-time capture and decoding for WST Teletext in Hardware, to enable optimized μ -processor throughput.
- Automatic detection of FASTEXT transmission.
- Real-time packet 26 engine in Hardware for processing accented, G2 and G3 characters.
- Signal quality detector for video and WST/VPS data types.
- Comprehensive teletext language coverage.
- Full Field and Vertical Blanking Interval (VBI) data capture of WST data Display.
- Teletext and Enhanced OSD modes.
- Features of level 1.5 WST and US Close Caption.
- Serial and Parallel Display Attributes.
- Single/Double/Quadruple Width and Height for characters.
- Scrolling of display region.
- Variable flash rate controlled by software.
- Enhanced display features including overlining, underlining and italics.
- Soft colours using CLUT with 4096 colour palette.
- Globally selectable scan lines per row (9/10/13/16) and character matrix [12x10, 12x13, 12x16 (VxH)].
- Fringing (Shadow) selectable from N-S-E-W direction.
- Fringe colour selectable.
- Meshing of defined area.
- Contrast reduction of defined area.
- Cursor.
- Special Graphics Characters with two planes, allowing four colours per character.
- 32 software redefinable On-Screen display characters.
- 4 WST Character sets (G0/G2) in single device (e.g. Latin, Cyrillic, Greek, Arabic).
- G1 Mosaic graphics, Limited G3 Line drawing characters.
- WST Character sets and Closed Caption Character set in single device.



MSP 34x0G Multistandard Sound Processor Family

The MSP 3410G family of single-chip Multistandard Sound Processors covers the sound processing of all analog TV-Standards worldwide, as well as the NICAM digital sound standards. The full TV sound processing, starting with analog sound IF signal-in, down to processed analog AF-out, is performed on a single chip. This new generation of TV sound processing ICs now includes versions for processing the multichannel television sound (MTS) signal conforming to the standard recommended by the Broadcast Television Systems Committee (BTSC). The DBX noise reduction, or alternatively, Micronas Noise Reduction (MNR) is performed. Other processed standards are the Japanese FM-FM multiplex standard (EIA-J) and the FM Stereo Radio standard. The MSP 3410G has optimum stereo performance without any adjustments.

The MSP 3410G has built-in automatic functions:

The IC is able to detect the actual sound standard automatically (Automatic Standard Detection). Furthermore, pilot levels and identification signals can be evaluated internally with subsequent switching between mono/ stereo/bilingual; no I2C interaction is necessary (Automatic Sound Selection).

The MSP 3410G can handle very high FM deviations even in conjunction with NICAM processing.

TDA7266S 5+5w Dual Bridge Amplifier

The TDA7266S is a dual bridge amplifier specially designed for TV and Portable Radio applications.

- Wide supply voltage range (3-18V)
- Minimum external components
 - no swr capacitor
 - no bootstrap
 - no boucherot cells
 - internally fixed gain
- Stand-by & mute functions
- Short circuit protection
- Thermal overload protection

TDA 7442 Digitally Controlled Audio Processor

The TDA7442/42D is volume tone (bass and treble) balance (Left/ Right) processors for quality audio applications in TV and Hi-Fi systems. It reproduces surround sound by using a programmable phase shifter. Control of all the functions is accomplished by serial bus. The AC signal setting is obtained by resistor networks and switches combined with operational amplifiers. Thanks to the BIPO-LAR/CMOS Technology used, Low Distortion, Low Noise and DC stepping are obtained.

- 4 stereo inputs
- Input attenuation control in 0.5dB step
- Treble and bass control
- Two surround mode available with 4 selectable responses:
 - music
 - simulated stereo
- Two speaker attenuators:
 - 2 independent speaker controls
- In 1dB steps for balance facility
- independent mute function
- All functions programmable via serial Bus
- 2 monitor output (only for TDA7442)

CXA 2040AQ I2C Bus-Compatible Video Switch

The CXA2040AQ is an I2C bus-compatible 5-input, 3-output video switch for TVs.

Features

- Serial data control via I2C bus
- 5 composite video input systems
- 2 Y/C (S terminal) input systems
- 3 composite video output systems
- 1 Y/C (S terminal) output system
- Input can be selected independently for each output system.
- SYNC_ID function for CV1 system input
- Built-in 6dB amplifier for CVOUT2 system output
- Built-in Y/C MIX circuit
- Slave address can be changed (90H/92H).
- High impedance maintained by I2C bus line (SDA, SCL) even when power is OFF.

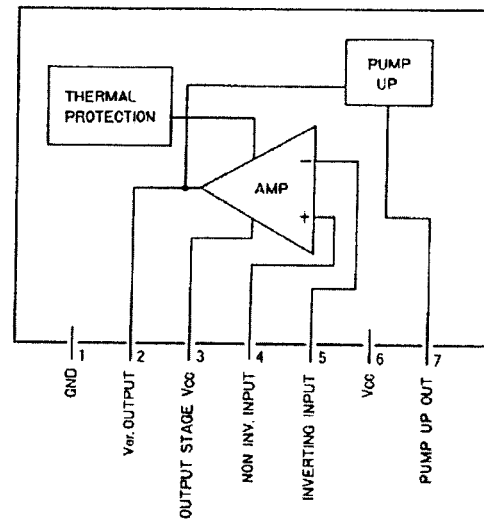
LA7840 Vertical Deflection Output Circuit

Features

- Low power dissipation due to built-in pump-up circuit
- Vertical output circuit
- Thermal protection circuit built in
- Excellent crossover characteristics
- DC coupling possible

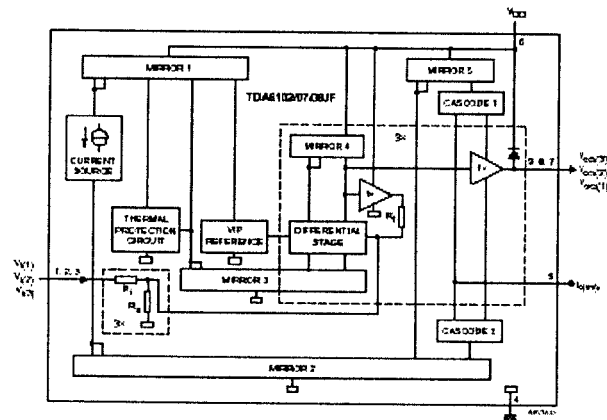
General Description

The LA7840 is a vertical deflection output IC for TVs and CRT displays with excellent image quality that use a BUS control system signal processing IC. This IC can drive the direct (even including a DC component) deflection yoke with the sawtooth wave output from the BUS control system signal processing IC. Because the maximum deflection current is 1.8 A p-p, the LA7840 is suited for small and medium screen sets.



TDA6108 Triple Video Output Amplifiers

By integrating three video amplifiers in a single IC, the TDA6108 ICs provides a single IC solution for driving color TV CRTs. Each device in the TDA6108 family contains three video output amplifiers in one plastic DIL-bent-SiL 9-pin medium power (DBS9MPF) package (SOT111-1). Using high-voltage DMOS technology, this enables each of these ICs to drive the three cathodes of a color CRT directly, providing a significant reduction in the Bill of Materials for new designs. For maximum performance, the TDA610x amplifiers should be used with black-current control, enabling automatic black current stabilization and removing the need for any external alignments on the CRT board.



TDA8601 RGB/YUV and Fast Blanking Switch

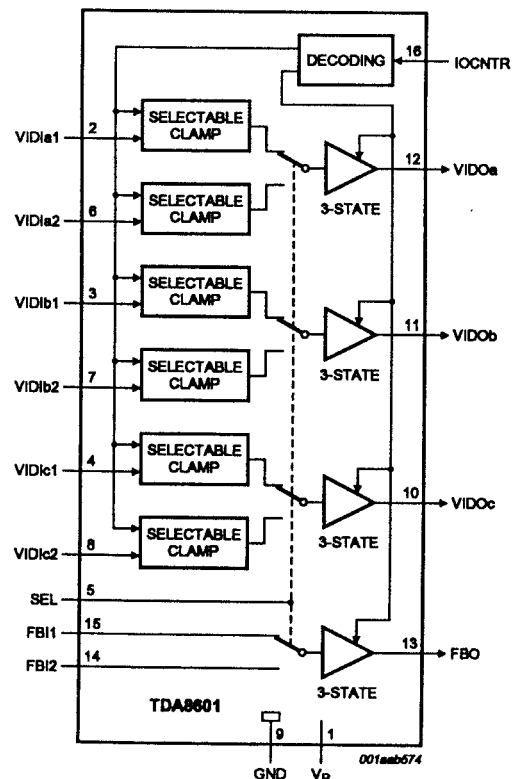
Features

- YUV/RGB and fast blanking switch
- 3-state output
- Selectable clamp:
 - passive (with diodes) or active clamp
- Bandwidth greater than 22MHz
- Fully ESD protected
- Latch-up free.

General Description

The device is intended for switching between two RGB or YUV video sources. The outputs can be set to a high-impedance state to enable parallel connection of several devices. A HIGH level on SEL (pin 5) selects the video inputs of Channel 2. The IOCNTN control pin (pin 16) defines the 3-state outputs and clamp inputs:

- HIGH = 3-state outputs (also for test; active clamp)
- LOW = passive clamp at the video inputs (diode)
- Sandcastle: the video signal is clamped with an active clamp during the sync pulse.



Abgleich

Messgeräte: Digitalvoltmeter, Farbbildgenerator.

Servicearbeiten nach Austausch bzw. Reparatur:

- **Netzteil:** Abgleich 1, 3
- **Tuner / ZF:** Abgleich 2
- **IC401 (EEPROM):** Abgleich 2, 4...5
- **Bildröhre:** Abgleich 3...5
- **Bildrohrplatte:** Abgleich 3, 5
- **Ablenkung:** Abgleich 4

1. Spannung B+

- Digitalvoltmeter: D627 Kathode
- Programm: AV
- Helligkeit auf Minimum.
- **Spannung B+** mit **VR601** entsprechend der Bildröhre einstellen:

Bildröhre	B+	Bildröhre	B+
A33EKC01X01	111V	A34 KPU02XXB	111V
A33EKC02X01	111V	A51ERF135X80	130V
A34EAC01X06	111V	A51ELD032X001	132V
A34EJL02X31	111V		

2. AGC

- Service Mode aufrufen: Taste "i" drücken -> "8500" eingeben.
- **"AGC"** mit den Tasten **P+ / P-** anwählen.
- Mit den Tasten **◀ / ▶** Wert auf 35 einstellen.
- **TEST** mit den Tasten **P+ / P-** anwählen.
- Mit den Tasten **◀ / ▶** Wert auf 35 einstellen.
- Bild mit 65 dB/μV Antennenpegel auf Störungen, bzw. Kreuzmodulation kontrollieren. Gegebenenfalls Wert/e erhöhen (z.B. 40).
- Service Mode beenden: Taste **"TXT"** drücken.

3. Screen

- Service Mode aufrufen: Taste "i" drücken -> "8500" eingeben.
- **SCRN** mit den Tasten **P+ / P-** anwählen und mit den Tasten **◀ / ▶** auf **ON** stellen. Auf dem Bildschirm wird "BRI 00" angezeigt.
- **SCREEN** am Dioden-Splitt-Trafo TR501 so einstellen, dass "BRI 00" gerade sichtbar ist.
- Mit den Tasten **◀ / ▶** auf Bild zurückschalten (**SCRN** wird auf **OFF** zurückgesetzt).
- Service Mode beenden: Taste **"TXT"** drücken.

4. Geometrie

- Geometrie-Testbild einspeisen.
- Service Mode aufrufen: Taste "i" drücken -> "8500" eingeben.
- Mit den Tasten **P+ / P-** die gewünschte Bildgeometrie-Abgleichfunktion aufrufen und mit den Tasten **◀ / ▶** die Geometrie einstellen:
- Bildmitte vertikal **VSLP**. Die untere Bildhälfte ist ausgeblendet. Den Bildinhalt so einstellen, dass die Mittellinie gerade nicht mehr sichtbar ist.
- Zoom vertikal **VZOM**.
Bei 16:9 Geräten den Wert auf 35 einstellen.
Bei 4:3 Geräten **VZOM** so einstellen, dass der Kreis gerade den Rand berührt. Gegebenenfalls **VSLP** nochmals korrigieren.
- Bildposition vertikal **VSHT**.
- Bildlinearität vertikal **SCOR**.
- Bildhöhe vertikal **VAMP**.
- Bildposition horizontal **HSHT**.
- Ost/West-Parabel 4:3 **EWPPW**.
- Ost/West-Trapez **EWTP**.
- Ost/West-Parabel 16:9 **EWPP1**.
- Obere Ecken **EWCU**.
- Untere Ecken **EWCL**.
- Bildbreite bei 4:3 Geräten **EWV**.
- Schräglage (Parallelogramm) horizontal **HPAR**.
- Biegung horizontal **HBOW**.
- Service Mode beenden: Taste **"TXT"** drücken.

5. Weißabgleich / Cut off

- Testbild Grautreppe einspeisen.
- Service Mode aufrufen: Taste "i" drücken -> "8500" eingeben.
- **GRN** mit den Tasten **P+ / P-** anwählen und mit den Tasten **◀ / ▶** auf 32 stellen.
- **RED** und **BLUE** jeweils mit den Tasten **P+ / P-** anwählen und mit den Tasten **◀ / ▶** so einstellen, dass der weiße Bildbereich **unbunt** ist. Sollte sich der Weißwert nicht einstellen lassen, Wert für **GRN** korrigieren.
- **BLOR** und **BLOG** jeweils mit den Tasten **P+ / P-** anwählen und mit den Tasten **◀ / ▶** so einstellen, dass der dunkle Bildbereich **unbunt** ist.
- Service Mode beenden: Taste **"TXT"** drücken.

Adjustment

Measuring instruments: Digital voltmeter, colour video generator.

Service works after replacement or repair of the following modules:

- **Power supply:** adjustment 1, 3
- **Tuner / IF:** adjustment 2
- **IC401 (EEPROM):** adjustment 2, 4...5
- **CRT:** adjustment 3...5
- **CRT panel:** adjustment 3, 5
- **Deflection:** adjustment 4

1. Supply Voltage B+

- Digital voltmeter: D627 cathode.
- Programme: AV.
- Brightness control to minimum.
- Adjust **voltage B+** the values below the CRT with **VR601**.

Bildröhre	B+	Bildröhre	B+
A33EKC01X01	111V	A34 KPU02XXB	111V
A33EKC02X01	111V	A51ERF135X80	130V
A34EAC01X06	111V	A51ELD032X001	132V
A34EJL02X31	111V		

2. AGC

- Start the Service Mode: press button "i" -> enter "8500".
- Call up **AGC** with buttons **P+ / P-**.
- Adjust the value to 35 with buttons **◀ / ▶**.
- Call up **TEST** with buttons **P+ / P-**.
- Adjust the value to 35 with buttons **◀ / ▶**.
- Check picture with 65db/μV aerial level for interferences and cross-modulation respectively. If necessary increase the values (e.g. 40).
- End the Service Mode: Press button **"TXT"**.

3. Screen

- Start the Service Mode: press button "i" -> enter "8500".
- Call up **SCRN** with buttons **P+ / P-** and switch **ON** with buttons **◀ / ▶**.
- "BRI 00" is shown on screen.
- Adjust **SCREEN** control at the FPT TR501, that "BRI 00" is just visible.
- Switch back to screen with buttons **◀ / ▶** (**SCRN** is reset to **OFF**).
- End the Service Mode: Press button **"TXT"**.

4. Geometry

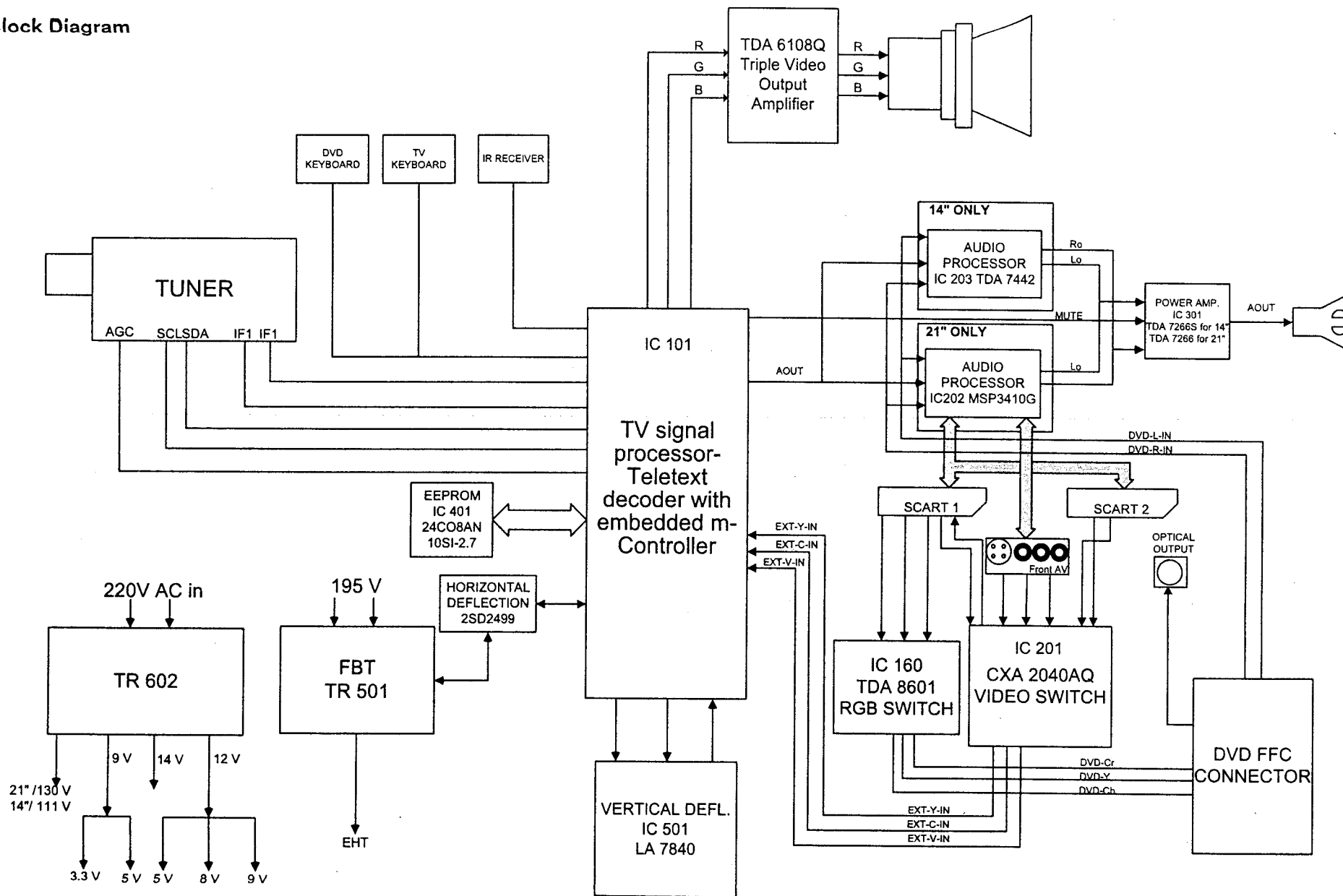
- Apply a geometry test pattern.
- Start the Service Mode: press button "i" -> enter "8500".
- Call up the geometry function with buttons **P+ / P-** and adjust the geometry with buttons **◀ / ▶**:
- Vertical slope **VSLP**. The lower half part of the pattern is blanked. Adjust picture so that the middle line of the pattern is cut.
- Zoom vertical **VZOM**.
For 16:9 sets, adjust the value to 35.
For 4:3 sets, adjust the circle of pattern just touches to the upper and lower edges. Readjust the **VSLP** if required.
- Vertical shift **VSHT**.
- Vertical linearity **SCOR**.
- Vertical amplitude **VAMP**.
- Horizontal shift **HSHT**.
- East west parabola width 4:3 **EWPPW**.
- East west trapezium **EWTP**.
- East west parabola width 16:9 **EWPP1**.
- Upper Corner **EWCU**.
- Lower Corner **EWCL**.
- Horizontal width for 4:3 sets **EWV**.
- Horizontal parallelogram with **HPAR**.
- Horizontal bow **HBOW**.
- End the Service Mode: Press button **"TXT"**.

5. White Balance / Cut off

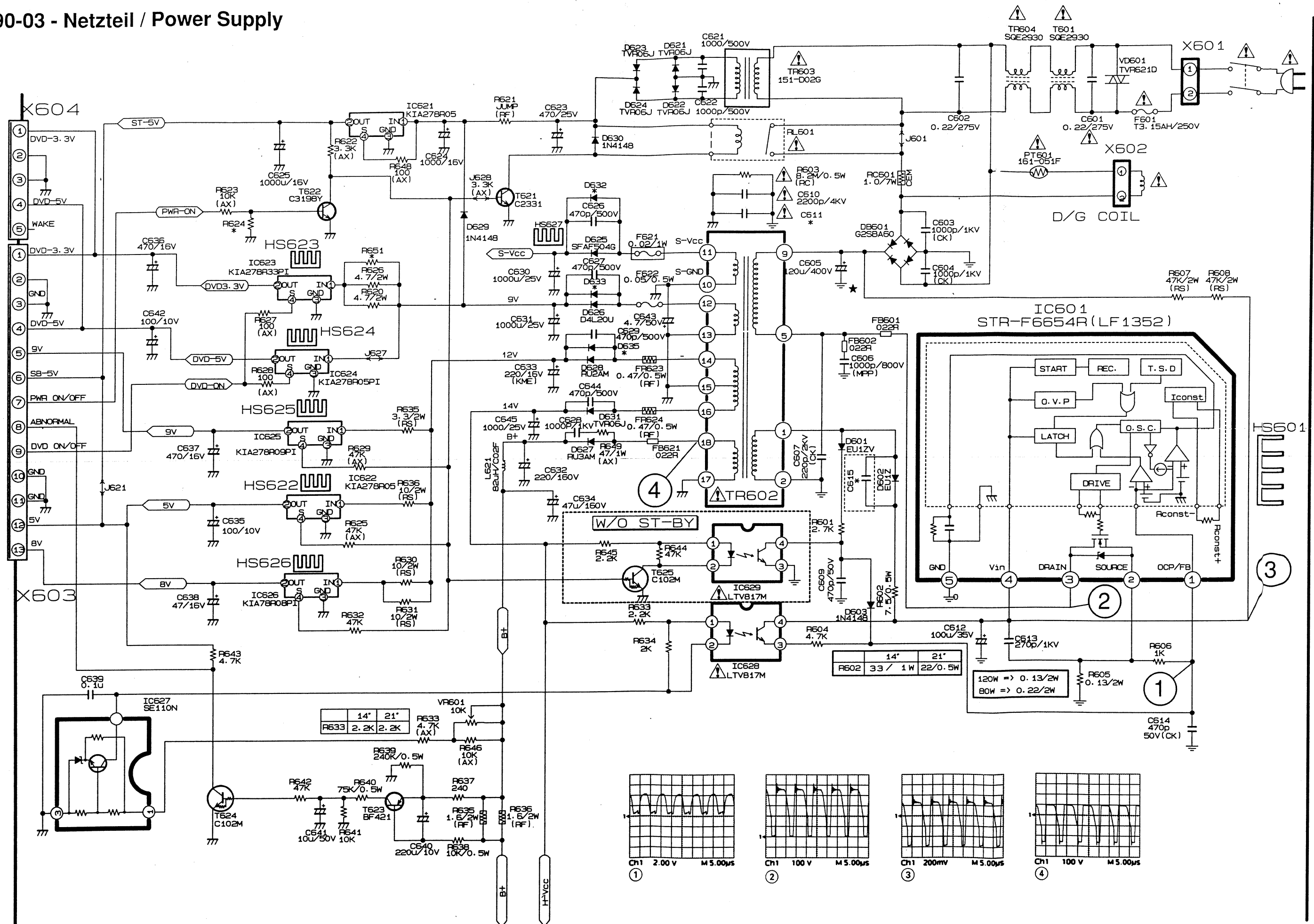
- Apply a Grey Scale Test pattern.
- Start the Service Mode: press button "i" -> enter "8500".
- Call up **GRN** with buttons **P+ / P-** and set it to 32 with buttons **◀ / ▶**.
- Call up **RED** and **BLUE** with buttons **P+ / P-** and adjust the values so that the white part of the picture becomes achromatic with buttons **◀ / ▶**. If white balance can not be adjusted properly change **GRN** value.
- Call up **BLOR** and **BLOG** with the buttons **P+ / P-** and adjust the values so that the dark part of the picture becomes achromatic with buttons **◀ / ▶**.
- End the Service Mode: Press button **"TXT"**.

Schaltpläne und Platinenabbildungen / Circuit Diagrams and Layout of the PCBs

Block Diagram

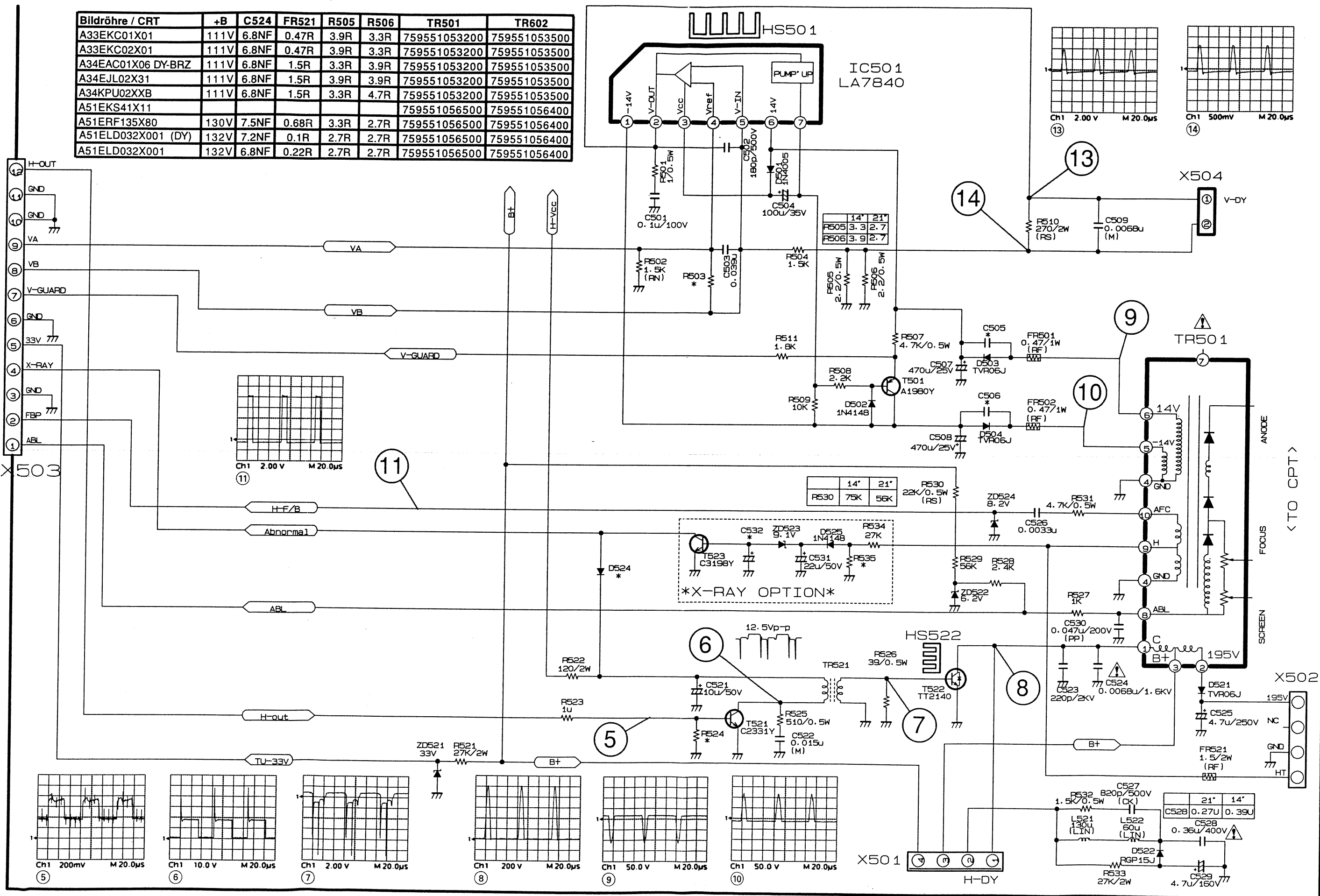


ZL6.190-03 - Netzteil / Power Supply

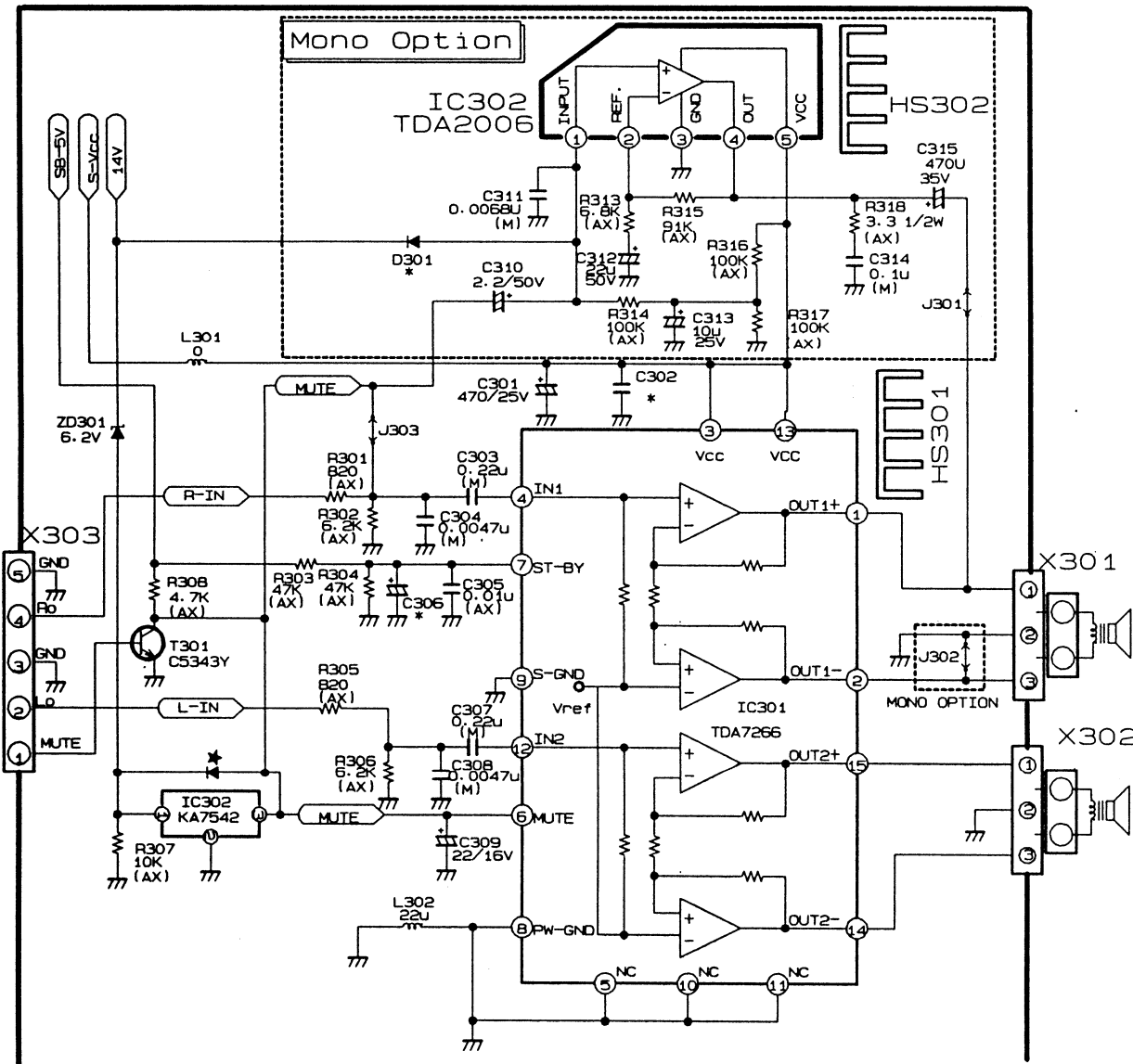


ZL6.190-03 - Ablenkung / Deflection

Bildröhre / CRT	+B	C524	FR521	R505	R506	TR501	TR602
A33EKC01X01	111V	6.8NF	0.47R	3.9R	3.3R	759551053200	759551053500
A33EKC02X01	111V	6.8NF	0.47R	3.9R	3.3R	759551053200	759551053500
A34EAC01X06 DY-BRZ	111V	6.8NF	1.5R	3.3R	3.9R	759551053200	759551053500
A34EJL02X31	111V	6.8NF	1.5R	3.9R	3.9R	759551053200	759551053500
A34KPU02XXB	111V	6.8NF	1.5R	3.3R	4.7R	759551053200	759551053500
A51EKS41X11						759551056500	759551056400
A51ERF135X80	130V	7.5NF	0.68R	3.3R	2.7R	759551056500	759551056400
A51ELD032X001 (DY)	132V	7.2NF	0.1R	2.7R	2.7R	759551056500	759551056400
A51ELD032X001	132V	6.8NF	0.22R	2.7R	2.7R	759551056500	759551056400



ZL6.190-03 - NF-Endstufe, AF Amplifier

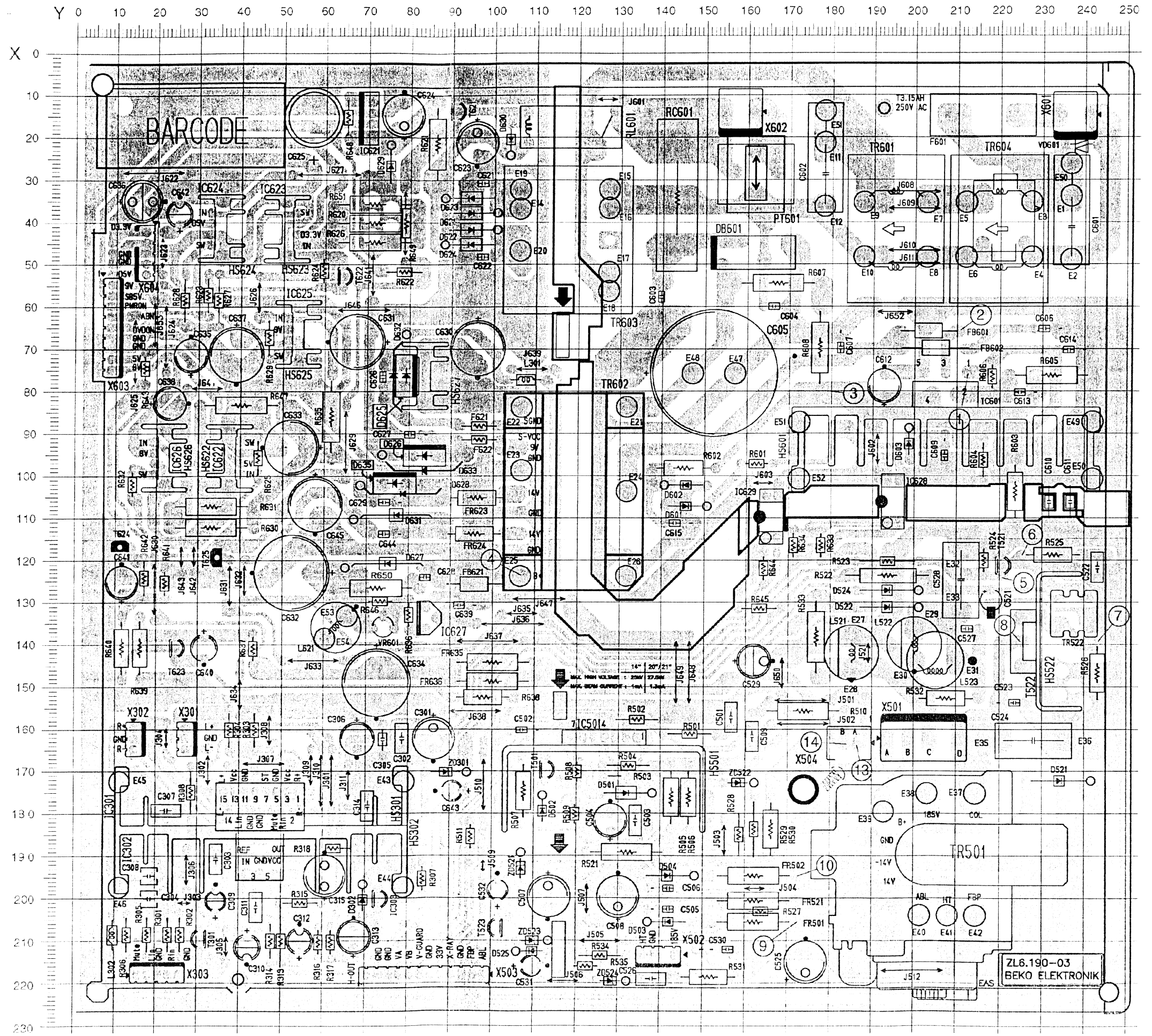


Koordinaten für die Bauteile der Bestückungsseite (Ansicht von oben)

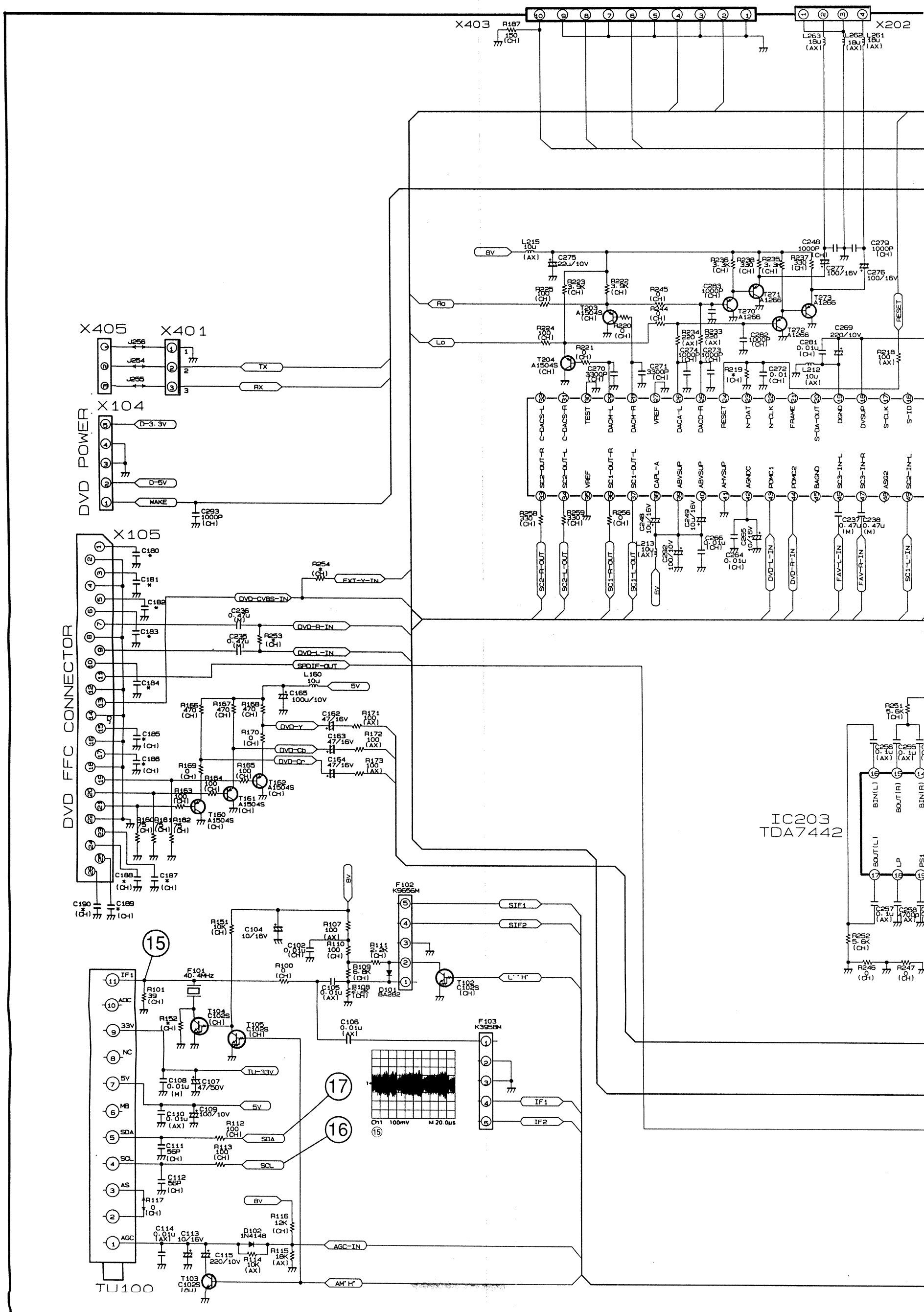
Coordinates of the Components on the component side (top view)

Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates	
	X	Y		X	Y		X	Y		X	Y
C301	163	85	C612	74	192	D626	93	85	E42	170	10
C302	163	78	C613	78	221	D627	120	64	E43	195	10
C303	191	34	C614	68	233	D628	100	68	E44	30	126
C304	198	20	C615	109	140	D629	20	69	E45	54	126
C305	164	73	C621	29	99	D630	59	98	E46	30	105
C306	163	67	C622	46	99	D631	108	66	E47	45	105
C307	177	24	C623	10	96	D632	64	78	E48	136	184
C308	193	15	C624	10	76	D633	93	73	E49	144	184
C309	196	34	C625	10	63	D634	14	103	E5	33	202
C310	212	41	C626	77	73	DB601	53	155	E6	46	202
C311	203	43	C627	88	77	E1	9	237	E7	33	187
C312	206	54	C628	124	69	E10	21	169	E8	46	187
C313	205	67	C629	104	71	E11	36	169	E9	14	169
C314	179	70	C630	70	95	E12	31	141	F601	12	221
C315	190	60	C631	64	64	E13	54	137	F621	86	87
C501	153	156	C632	121	48	E14	74	146	F622	89	87
C502	158	104	C633	91	49	E15	74	156	FB601	64	195
C503	182	133	C634	151	72	E16	85	241	FB602	68	195
C504	177	127	C635	67	27	E17	99	241	FB621	124	82
C505	201	144	C636	35	16	E18	85	171	FR501	204	151
C506	196	144	C637	72	38	E19	99	171	FR502	193	151
C507	200	113	C638	81	24	E2	24	212	FR521	199	151
C508	195	129	C639	129	89	E20	115	210	FR623	104	82
C509	162	161	C640	141	31	E21	130	210	FR624	112	82
C521	130	217	C641	121	11	E22	138	210	FR635	142	89
C522	122	242	C642	46	23	E23	134	199	FR636	147	89
C523	152	225	C643	173	87	E24	142	199	IC301	178	44
C524	161	239	C644	112	71	E25	161	239	IC302	188	44
C525	211	170	C645	107	57	E26	161	232	IC303	196	72
C526	217	135				E27	161	217	IC501	160	126
C527	143	214	D302	195	69	E28	173	213	IC601	74	206
C528	115	210	D501	173	137	E29	173	202	IC621	15	69
C529	138	169	D502	174	111	E3	39	212	IC622	101	36
C530	210	158	D503	204	136	E30	177	192	IC623	46	49
C531	214	111	D504	193	147	E31	202	200	IC624	32	34
C532	194	101	D521	170	241	E32	202	207	IC625	57	53
C601	24	212	D522	129	200	E33	202	213	IC626	87	21
C602	36	169	D524	125	200	E34	82	131	IC627	134	83
C603	45	148	D525	211	105	E35	82	106	IC628	109	193
C604	47	180	D601	105	150	E36	102	131	IC629	113	164
C605	74	156	D602	100	140	E37	97	106	J301	163	61
C606	63	227	D603	87	198	E38	122	131	J302	163	32
C607	71	179	D621	36	100	E39	122	106	J303	199	29
C609	96	206	D622	40	100	E4	47	212	J304	164	22
C610	109	231	D623	32	87	E40	170	78	J305	213	36
C611	109	236	D624	43	87	E41	195	78			
			D625	77	78						

Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates	
	X	Y		X	Y
J306	196	27	R627	63	34
J307	166	39	R628	63	26
J308	163	46	R629	70	46
J309	163	56	R630	110	42
J310	163	59	R631	105	42
J311	166	65	R632	100	14
J501	151	165	R633	118	177
J502	157	165	R634	118	170
J503	189	154	R635	94	61
J504	196	165	R636	135	79
J505	208	119	R637	135	42
J506	218	121	R638	150	89
J507	203	122	R639	146	24
J509	193	97	R640	146	11
J510	179	97	R641	127	19
J512	215	190	R642	127	16
J521	144	188	R643	76	16
J601	69	126	R644	124	163
J602	97	190	R645	139	157
J603	100	167	R646	128	69
J621	68	19	R647	81	49
J622	26	9	R648	24	69
J623	50	18	R649	12	90
J624	74	21	R650	12	87
J625	77	14	RC601	54	141
J626	60	31	RL601	69	106
J627	32	58	RL602	21	107
J628	59	74	T301	210	30
J629	99	64	T501	165	112
J630	127	24	T521	117	219
J631	128	33	T522	137	221
J632	128	40	T523	208	101
J633	142	49	T621	52	93
J634	155	39	T622	52	88
J635	131	101	T623	136	18
J636	133	95	T624	114	10
J637	137	107	T625	120	37
J638	154	88	T626	25	93
J639	73	103	T627	25	98
J641	57	70	TR501	188	202
J642	11	120	TR522	134	233
J643	29	59	TR601	33	187
L301	75	102	TR602	122	131
L302	212	9	TR603	30	126
L521	144	184	VD601	30	223
L522	142	199	VR601	134	71
L621	131	65	X301	158	26
PT601	14	136	X302	158	14
R301	212	22	X303	216	15
R302	212	25	X501	160	193
R303	163	43	X502	211	143
R304	163	37	X503	216	97
R305	212	17	X504	162	183
R306	212	12	X601	29	240
R307	197	83	X602	18	158
R308	179	28	X603	43	10
R313	213	49	ZD301	168	93
R314	213	47	ZD521	187	106
R315	199	59	ZD522	171	161
R316	212	58	ZD523	208	113
R317	212	61	ZD524	218	131
R318	186	57			
R501	159	140			
R502	156	127			
R503	169	125			
R504	167	138			
R505	182	142			
R506	182	146			
R507	180	107			
R508	171	119			
R509	181	119			
R510	154	163			
R511	187	94			
R521	187	121			
R522	122	200			
R523	118	200			
R524	122	215			
R525	117	224			
R526	152	242			
R527	201	167			
R528	189	158			
R529	189	161			
R530	189	165			
R531	217	143			
R532	147	199			
R533	146	176			
R534	212	131			
R535	214	125			
R601	92	176			
R602	96	137			
R603	109	223			
R604	99	215			
R605	74	241			
R606	78	217			
R607	79	171			
R620	38	81			
R621	13	83			
R622	58	80			
R623	58	77			
R624	58	84			
R625	99	43			
R626	43	61			



ZL5.190-03 - Signalverarbeitung / Signal Processing

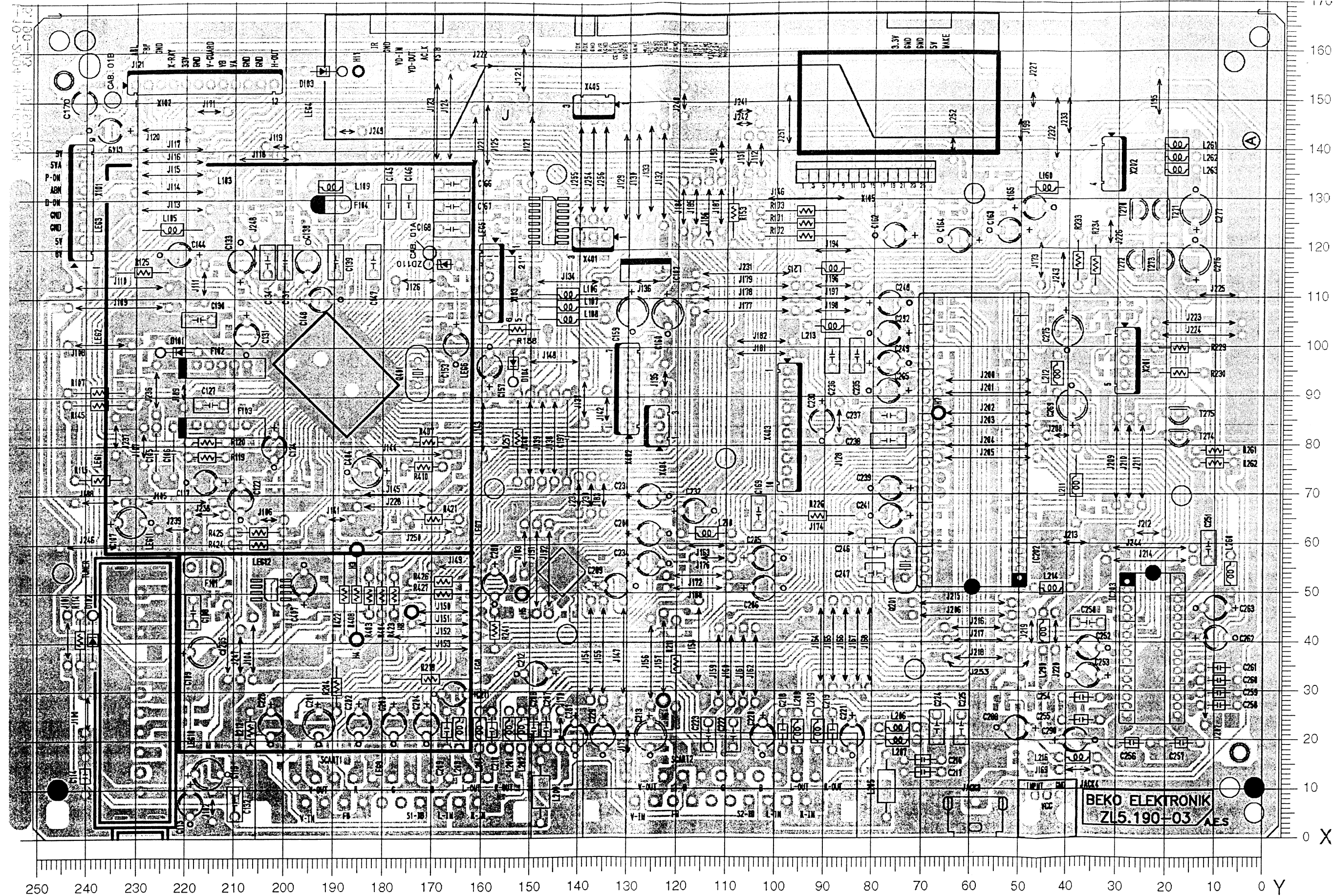


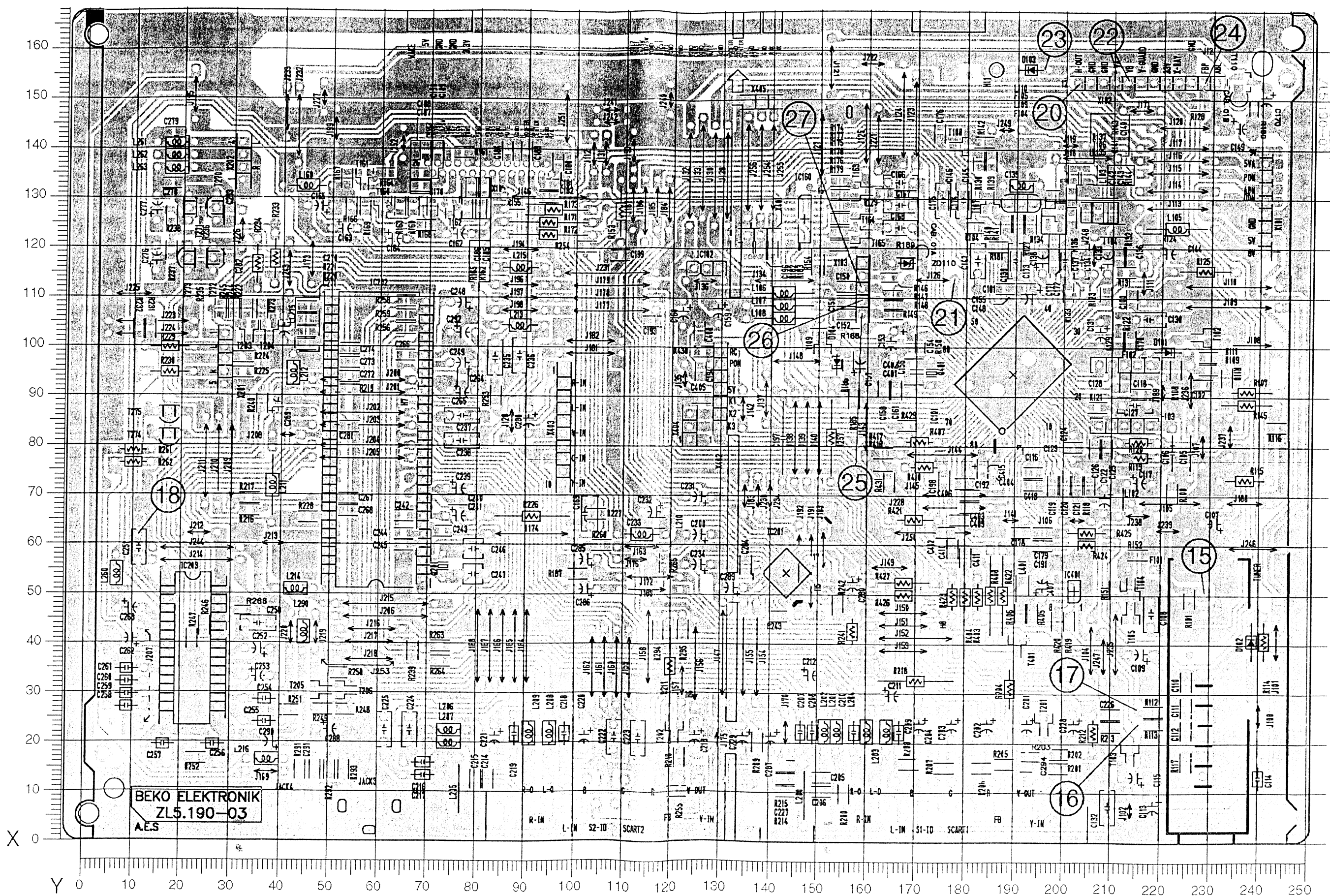




Sicht auf Bestückungsseite / View on Component Side

3 - 9





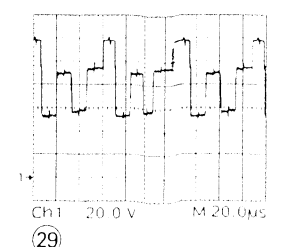
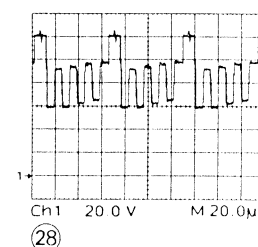
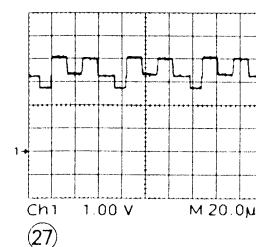
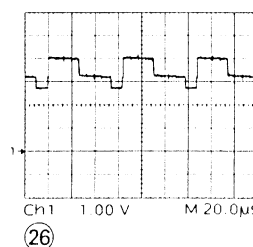
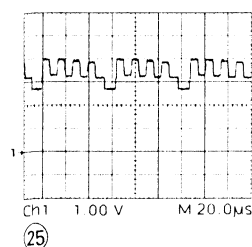
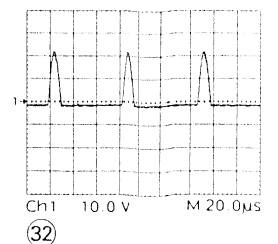
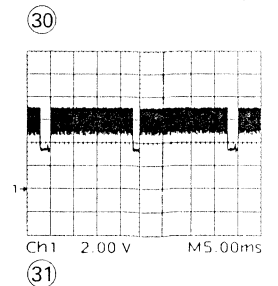
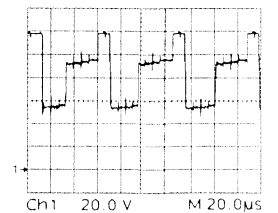
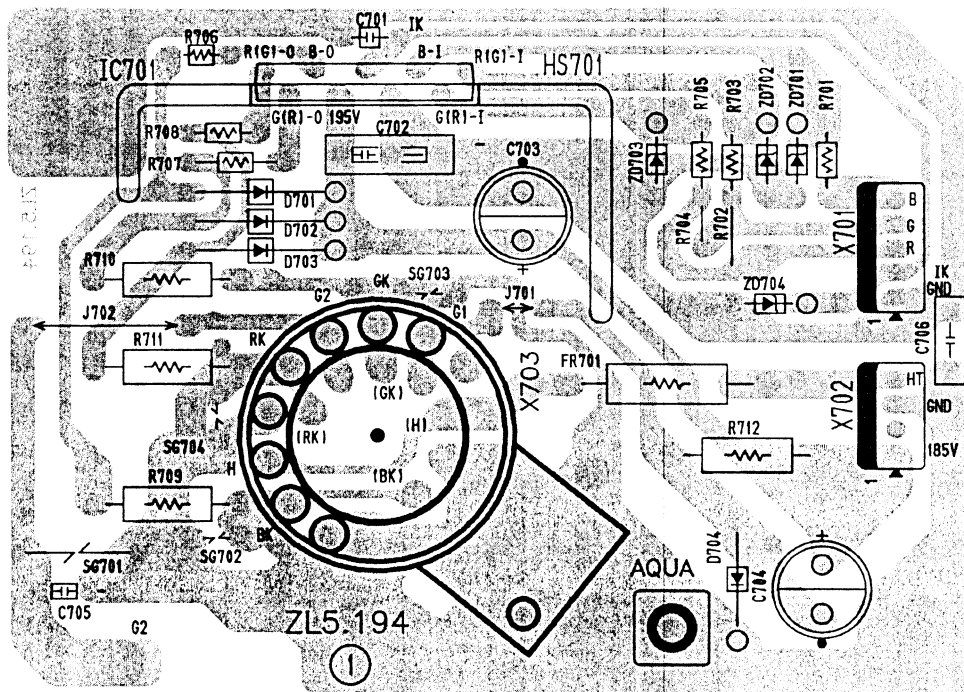
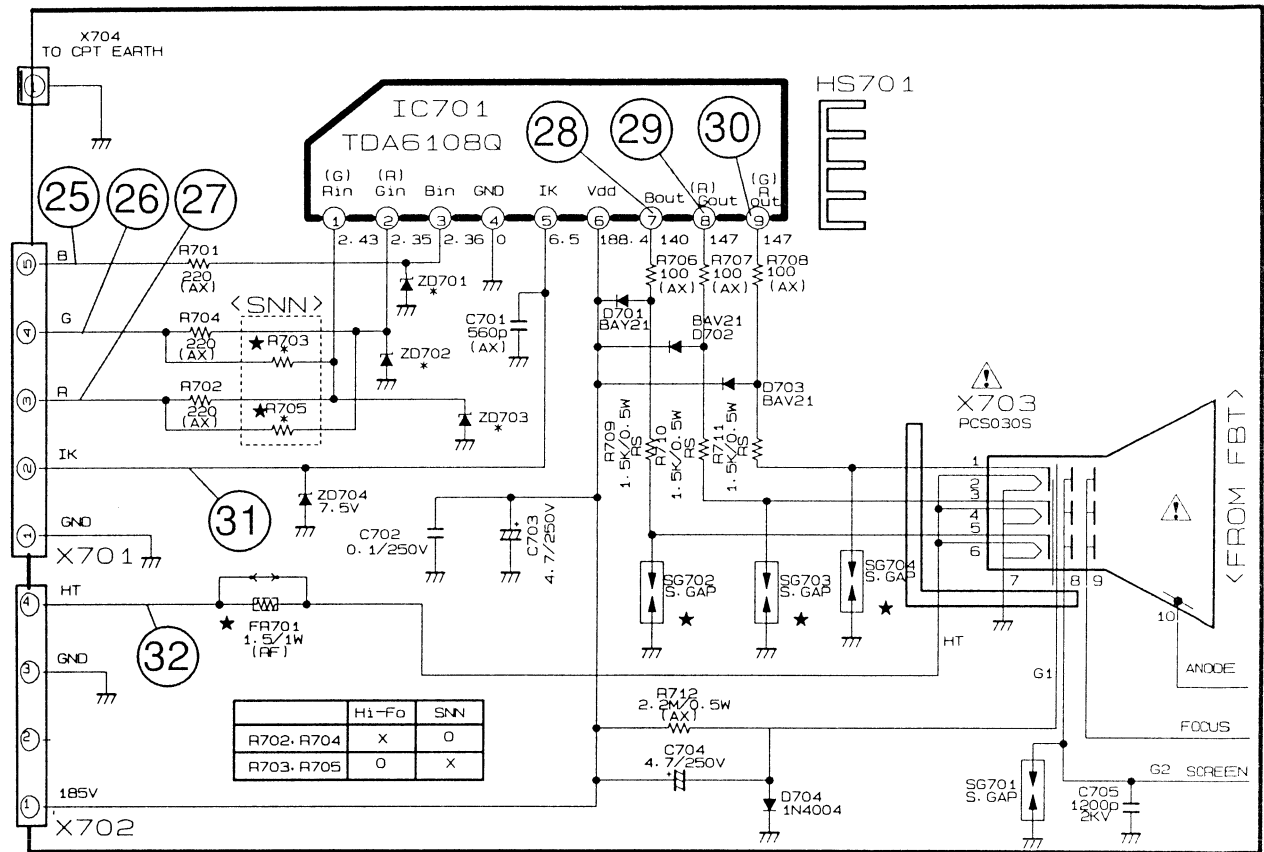
Koordinaten für die Bauteile der Bestückungsseite (Ansicht von oben)
Coordinates of the Components on the component side (top view)

Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates	
	X	Y		X	Y		X	Y		X	Y		X	Y		X	Y
C102	86	228	C225	20	66	J105	64	219	J171	100	136	L101	76	231	R406	45	188
C105	76	226	C228	21	203	J106	68	238	J172	53	110	L102	63	200	R407	80	168
C106	76	222	C229	18	136	J107	76	236	J173	111	49	L103	129	204	R409	62	165
C107	88	238	C230	81	93	J108	97	230	J174	61	85	L104	122	204	R410	75	169
C108	46	219	C231	69	125	J109	104	233	J175	16	131	L105	122	215	R421	64	165
C109	39	218	C232	66	116	J110	110	228	J176	56	111	L106	109	136	R423	53	178
C113	5	218	C234	55	125	J111	111	213	J177	106	98	L107	107	136	R424	57	200
C114	9	240	C235	94	86	J112	133	104	J178	108	98	L108	104	136	R425	59	200
C115	20	218	C236	94	89	J113	126	215	J179	111	98	L109	131	187	R426	52	162
C116	67	193	C237	84	77	J114	130	215	J180	50	110	L110	139	187	R427	49	162
C117	63	192	C238	81	77	J115	133	215	J181	97	99	L160	130	43	SCART1	7	196
C119	67	198	C239	70	81	J116	136	215	J182	100	99	L200	3	149	SCART2	7	130
C120	67	202	C241	65	81	J117	138	215	J183	65	137	L201	18	155	T270	128	30
C121	67	206	C246	58	79	J118	136	198	J184	122	123	L202	18	153	T271	123	24
C122	60	219	C247	53	79	J119	139	198	J185	122	121	L203	18	165	T272	113	29
C123	67	213	C248	107	77	J120	142	218	J186	122	118	L204	18	161	T273	118	24
C124	72	218	C249	95	77	J121	146	218	J187	122	116	L205	4	79	T274	81	18
C127	87	212	C250	43	36	J122	128	233	J188	122	113	L206	22	73	T275	85	18
C128	91	212	C251	56	15	J123	132	170	J190	122	111	L207	20	73	TUNER	9	229
C129	99	220	C252	38	36	J124	132	168	J191	45	150	L208	18	97	X101	118	240
C130	99	217	C253	33	41	J125	131	143	J192	45	147	L209	18	93	X102	151	230
C131	99	211	C254	28	36	J126	119	164	J193	134	116	L210	61	111	X103	115	160
C132	107	225	C255	24	36	J127	131	146	J194	118	86	L211	63	41	X104	150	38
C133	118	209	C256	19	26	J128	80	89	J195	143	25	L212	89	45	X105	133	97
C134	113	204	C257	19	16	J129	122	136	J196	111	86	L213	103	86	X201	101	32
C137	113	200	C258	27	9	J130	122	132	J197	108	86	L214	50	42	X202	139	35
C138	118	196	C259	29	9	J131	133	108	J198	106	86	L215	109	44	X401	96	141
C139	113	190	C260	32	9	J132	122	126	J199	136	56	L216	16	37	X402	83	131
C144	118	223	C261	34	9	J133	122	128	J200	92	49	L260	49	10	X403	94	100
C145	125	179	C262	40	11	J134	112	136	J201	89	49	L261	139	18	X404	80	125
C146	125	176	C263	46	16	J135	89	124	J202	85	49	L262	136	18			
C147	113	183	C265	89	82	J136	112	124	J203	83	49	L263	134	18			
C149	116	165	C269	89	42	J137	83	139	J204	79	49	L290	38	48			
C153	100	160	C275	99	43	J138	72	145	J205	76	49	L401	57	178			
C157	95	153	C276	118	18	J139	72	148	J206	45	54	Q201	52	76			
C159	103	131	C277	128	18	J140	72	150	J207	23	15	Q401	91	174			
C160	103	124	C280	49	158	J141	72	153	J208	81	41	R104	76	233			
C162	121	81	C285	58	102	J142	83	137	J209	67	33	R106	76	228			
C163	122	58	C286	50	102	J143	76	161	J210	67	31	R107	100	233			
C164	120	68	C287	18	142	J144	77	168	J211	67	28	R114	35	241			
C165	126	48	C288	22	56	J145	72	168	J212	61	23	R119	77	212			
C166	129	165	C289	51	131	J146	128	87	J213	59	38	R120	80	212			
C167	126	165	C290	20	39	J147	28	131	J214	56	18	R125	114	222			
C168	122	165	C292	101	82	J148	40	193	J215	47	54	R146	113	170			
C169	136	111	C401	91	170	J149	40	186	J216	42	55	R147	110	170			
C200	61	125	C402	96	170	J150	46	162	J217	40	55	R148	108	170			
C201	21	193	C404	63	185	J151	43	162	J218	36	55	R149	105	170			
C202	21	185	C407	57	197	J152	41	162	J219	38	50	R171	123	87			
C203	21	178				J153	38	162	J220	38	45	R172	121	87			
C204	21	172	D101	90	225	J154	28	139	J221	132	163	R173	126	87			
C207	18	148	D102	45	238	J155	28	136	J222	154	158	R186	118	124			
C208	18	150	D103	153	189	J156	27	127	J223	103	8	R204	26	190			
C209	18	168	D104	116	149	J157	28	124	J224	101	8	R211	26	122			
C210	18	159	F101	55	219	J158	30	117	J225	109	8	R212	18	207			
C211	29	167	F102	95	218	J159	27	113	J226	118	35	R218	34	162			
C212	33	152	F103	83	218	J160	27	111	J227	135	48	R226	65	85			
C213	18	127	F104	127	194	J161	27	108	J228	70	168	R229	98	16			
C216	16	68	F105	135	194	J162	27	106	J229	151	35	R230	93	16			
C217	13	68	IC102	114	126	J163	59	111	J230	65	139	R233	111	41			
C218	18	100	IC202	52	53	J164	30	93	J231	113	98	R234	110	38			
C219	18	90	IC203	51	31	J165	30	90	J232	135	46	R241	38	158			
C220	18	104	J100	22	240	J166	30	88	J233	140	43	R261	78	10			
C221	18	86	J101	35	243	J167	30	85	J234	65	142	R262	75	10			
C222	18	110	J102	5	213	J168	30	83	J235	32	211	R403	53	183			
C223	18	115	J103	53	152	J169	14	37	JACK3	7	61	R404	53	181			
C224	20	69	J104	33	204	J170	18	145	JACK4	9	47	R405	45	191			

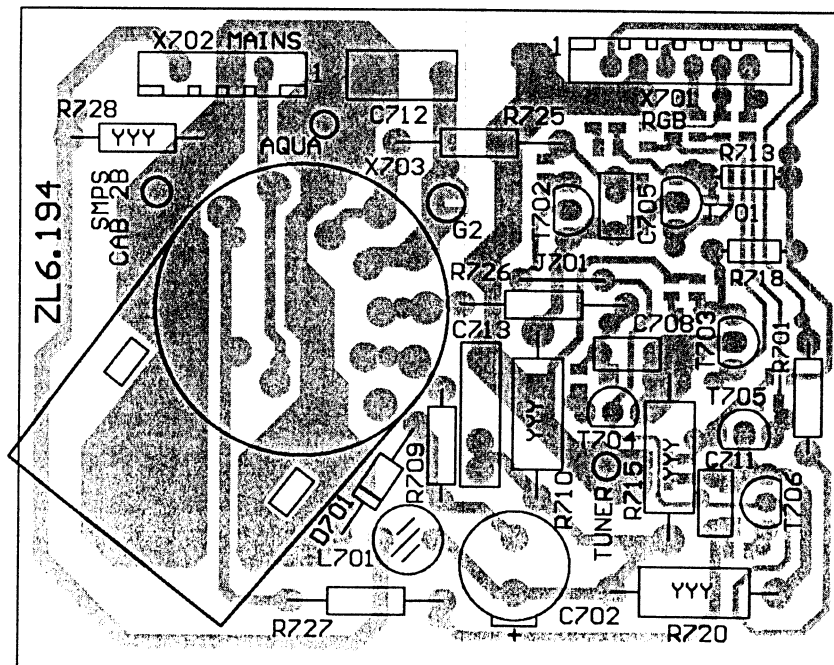
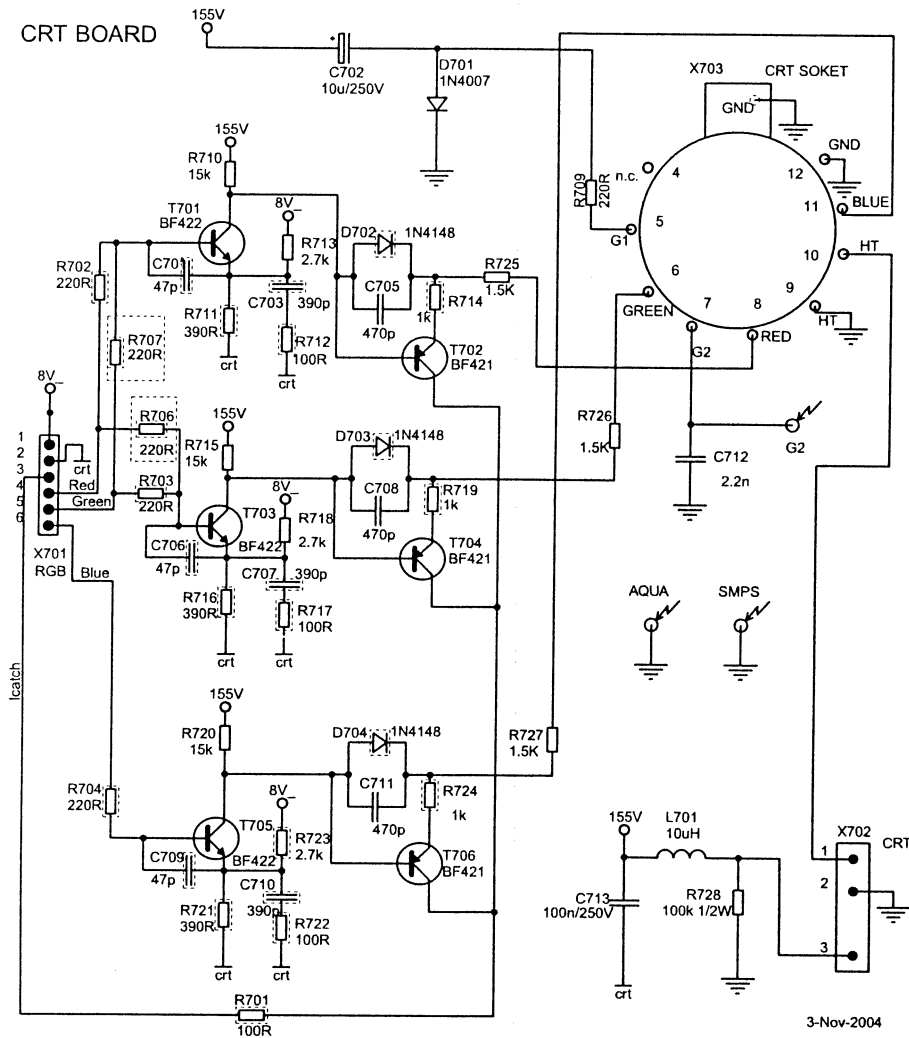
Koordinaten für die Bauteile der Lötseite (Ansicht von unten)
Coordinates of the Components on the solder side (bottom view)

Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates	
	X	Y		X	Y		X	Y		X	Y		X	Y
C101	70	225	C279	141	21	R132	117	213	R200	10	157	R251	26	45
C110	32	225	C281	82	56	R133	108	200	R201	15	200	R252	16	27
C111	27	225	C282	117	32	R134	116	198	R202	18	200	R253	89	86
C112	22	225	C283	124	32	R135	121	198	R203	16	194	R254	118	105
C125	78	209	C284	55	136	R136	124	201	R205	16	189	R291	14	47
C126	78	207	C291	14	50	R137	129	198	R206	16	184	R292	14	53
C135	133	192	C403	66	186	R138	132	198	R207	16	177	R293	14	56
C136	120	213	C405	88	127	R139	135	185	R208	16	170	R294	42	119
C140	133	204	C406	66	183	R140	123	188	R209	20	139	R295	42	124
C141	128	201	C408	102	127	R141	123	191	R210	17	124	R408	59	186
C142	125	204	C418	75	195	R142	139	184	R213	23	210	R417	77	164
C143	125	207				R143	133	202	R214	10	145	R418	75	164
C150	110	156	IC101	93	190	R144	125	209	R215	15	145	R419	45	199
C151	108	156	IC160	124	146	R145	55	240	R216	66	37	R420	45	196
C152	105	156	IC201	53	144	R150	102	167	R217	68	37	R422	37	185
			IC401	50	200									
C154	102	171				R151	50	211	R219	90	56	R429	83	169
C156	102	164	R100	72	222	R160	126	69	R220	101	48	R430	98	128
C158	98	155	R101	49	226	R161	136	63	R221	104	48	R431	72	165
C161	92	156	R102	67	225	R162	126	82	R222	106	36			
C205	13	152	R103	73	233	R163	126	66	R223	106	39	T101	71	229
			R105	67	229							T102	100	228
C206	10	152				R164	133	63	R224	96	35	T103	18	214
C214	12	85	R108	97	222	R165	126	80	R225	93	35	T104	51	214
C215	12	82	R109	91	228	R166	126	56	R227	63	105	T105	46	214
C226	26	210	R110	89	228	R167	132	55	R228	64	48			
C227	13	145	R111	94	228	R168	122	71	R231	96	16	T106	125	198
			R112	26	219							T107	126	185
C233	63	119				R169	126	59	R232	91	16	T108	138	179
C240	68	78	R113	24	219	R170	126	73	R235	116	27	T109	119	138
C242	65	68	R115	51	241	R174	131	153	R236	126	27	T160	126	63
C243	62	75	R116	55	242	R175	126	153	R237	117	21			
C244	61	68	R117	16	225	R176	120	153	R238	124	21	T161	131	59
			R118	68	209							T162	126	76
C245	59	68				R177	129	153	R239	38	70	T163	130	158
C264	92	79	R121	87	207	R178	123	153	R240	87	39	T164	126	158
C266	97	68	R122	102	215	R179	118	153	R242	47	155	T165	121	158
C267	68	56	R123	104	205	R180	79	202	R243	45	143			
C268	66	56	R124	114	217	R181	118	187	R244	106	33	T201	24	197
			R126	69	195							T202	22	123
C270	106	48				R182	93	142	R245	106	31	T203	101	36
C271	99	48	R127	123	193	R183	93	145	R246	43	28	T204	101	40
C272	92	56	R128	147	227	R184	115	206	R247	40	26	T205	30	51
C273	95	56	R129	129	161	R185	89	156	R248	26	56			
C274	98	56	R130	135	183	R187	55	103	R249	26	52	T206	30	56
			R131	114	213	R188	89	221				T401	40	190
C278	131	21							R250	33	55			

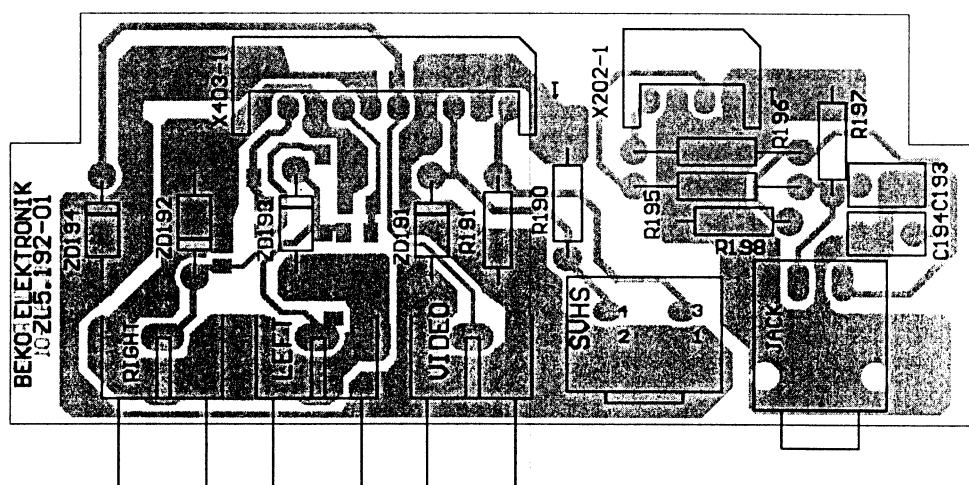
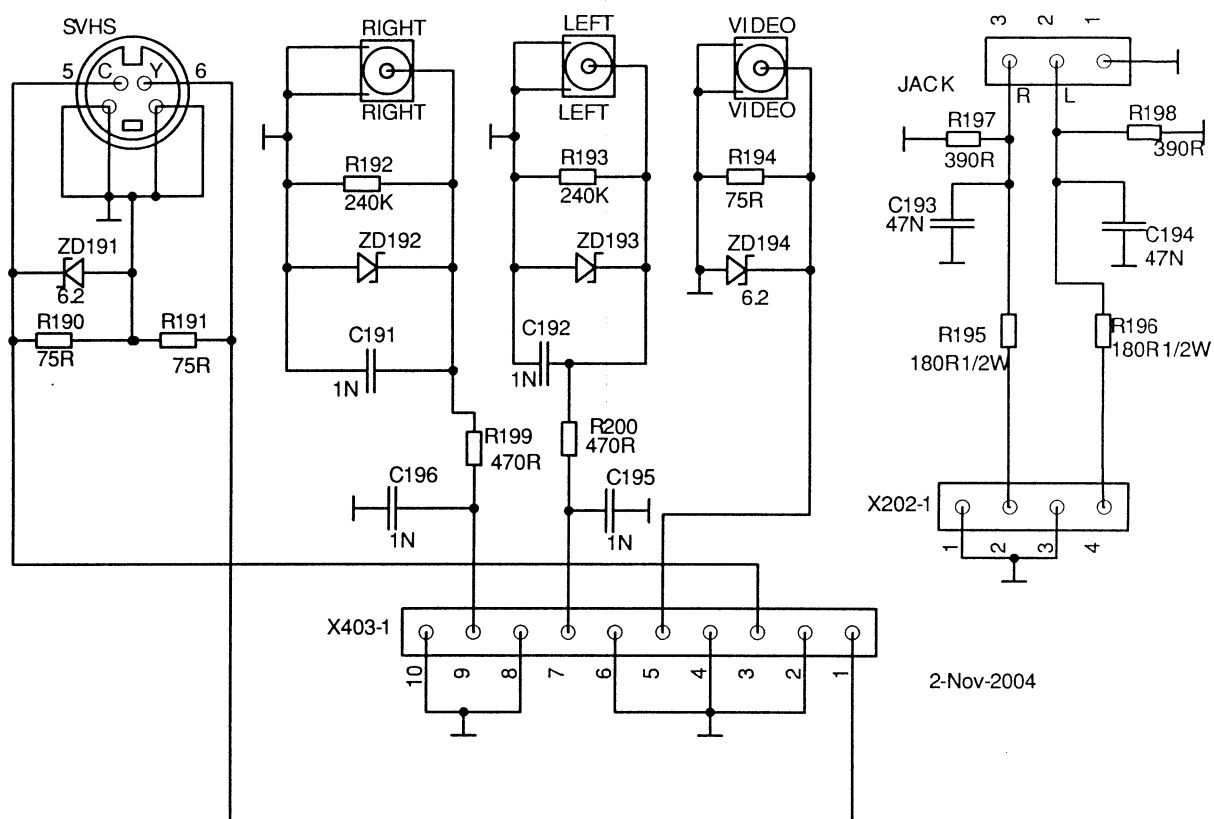
ZL5.194 - Bildrohrplatte / CRT Board



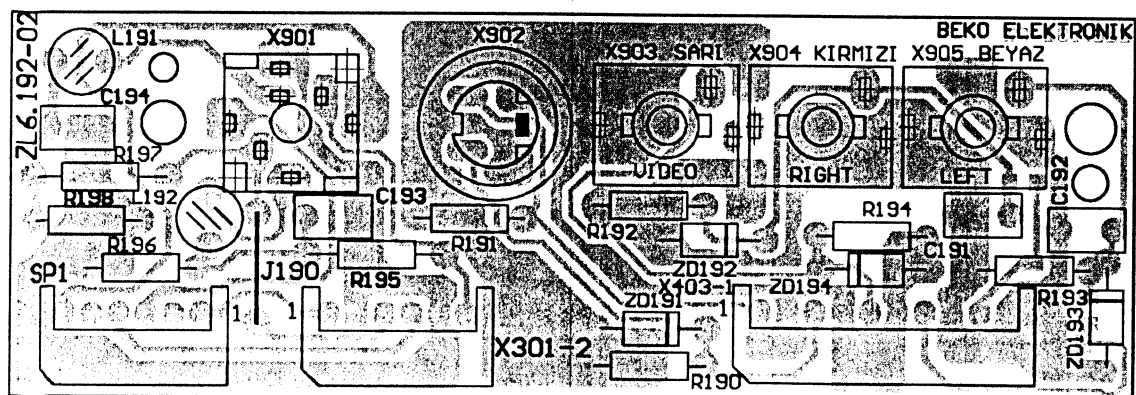
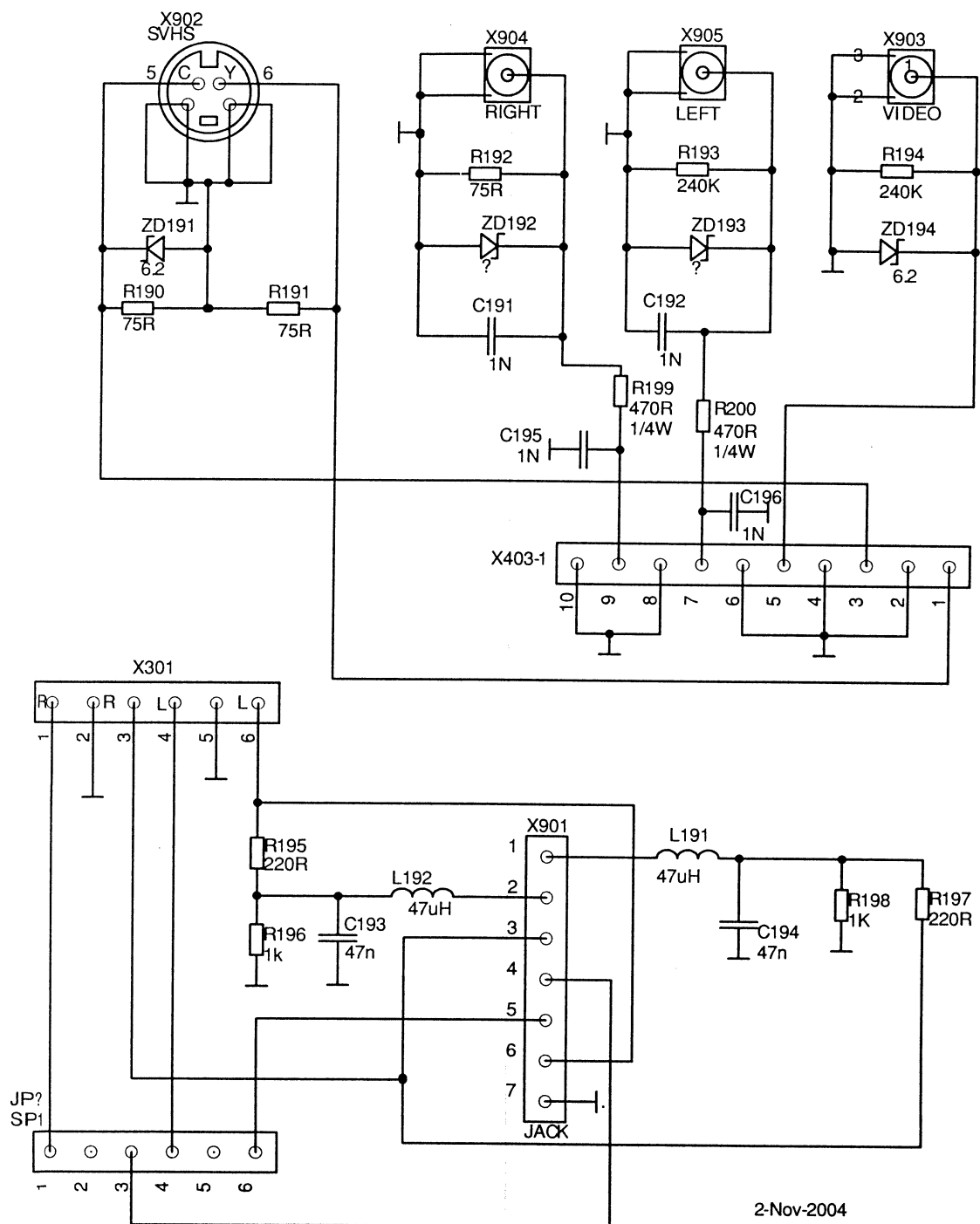
ZL6.194 - Bildrohrplatte / CRT Board



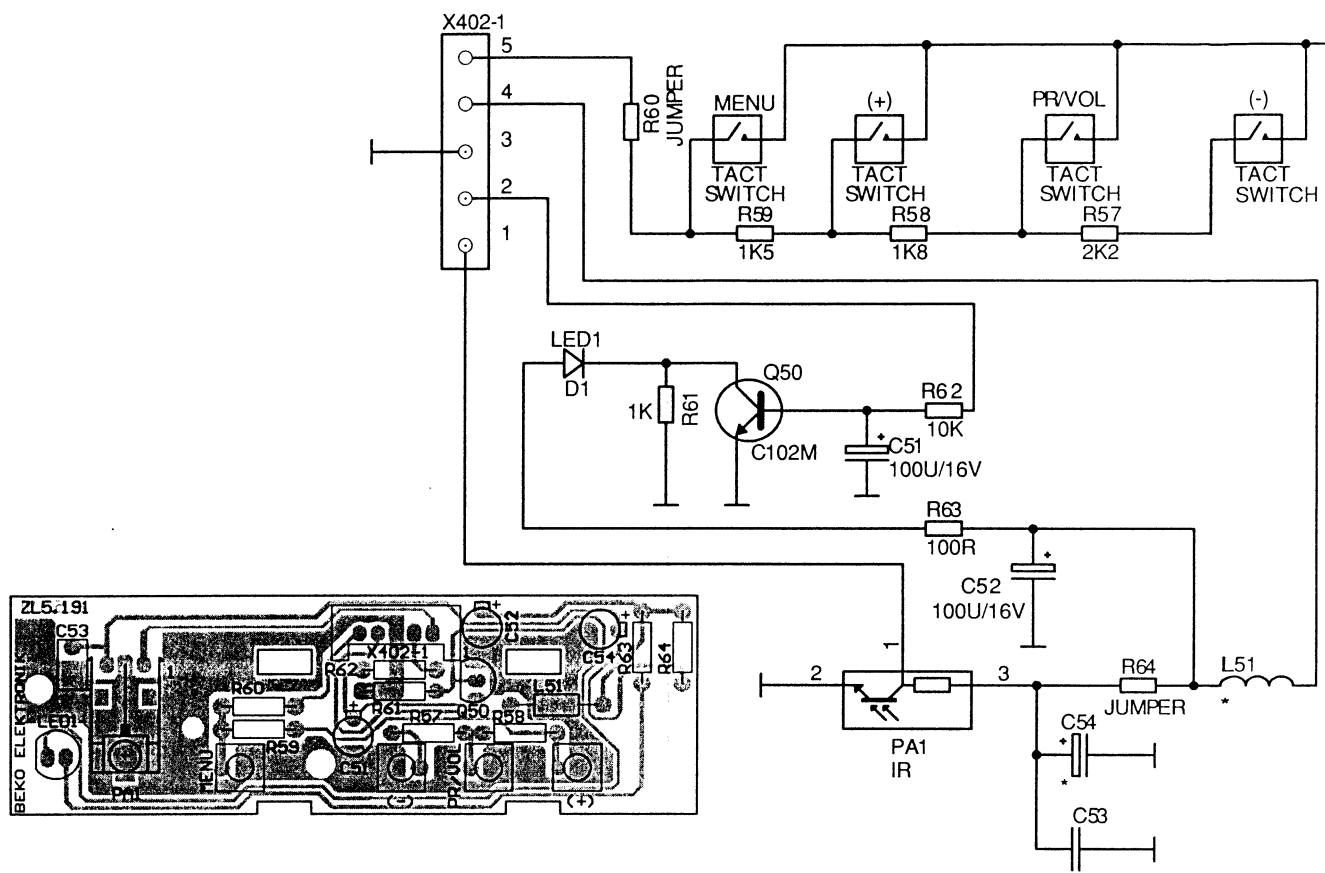
ZL5.192-01 - AV-Platte / AV Board



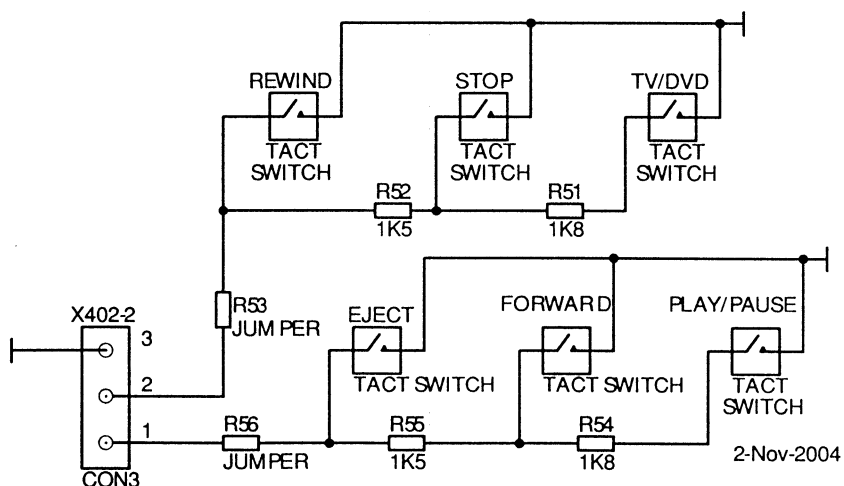
ZL6.192-02 - AV-Platte / AV Board



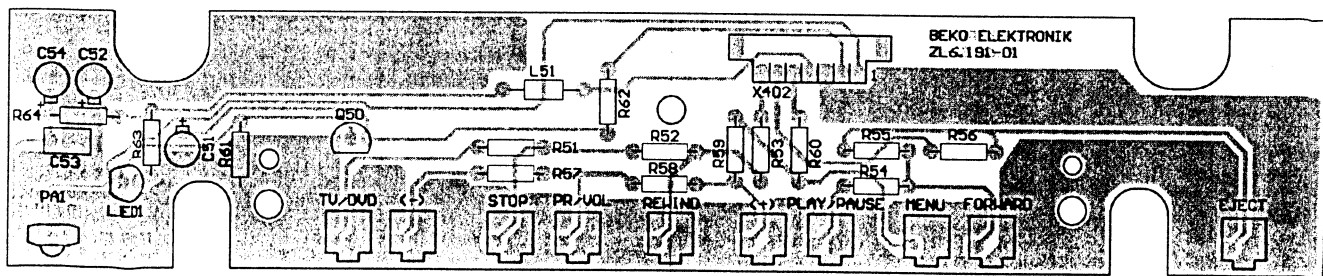
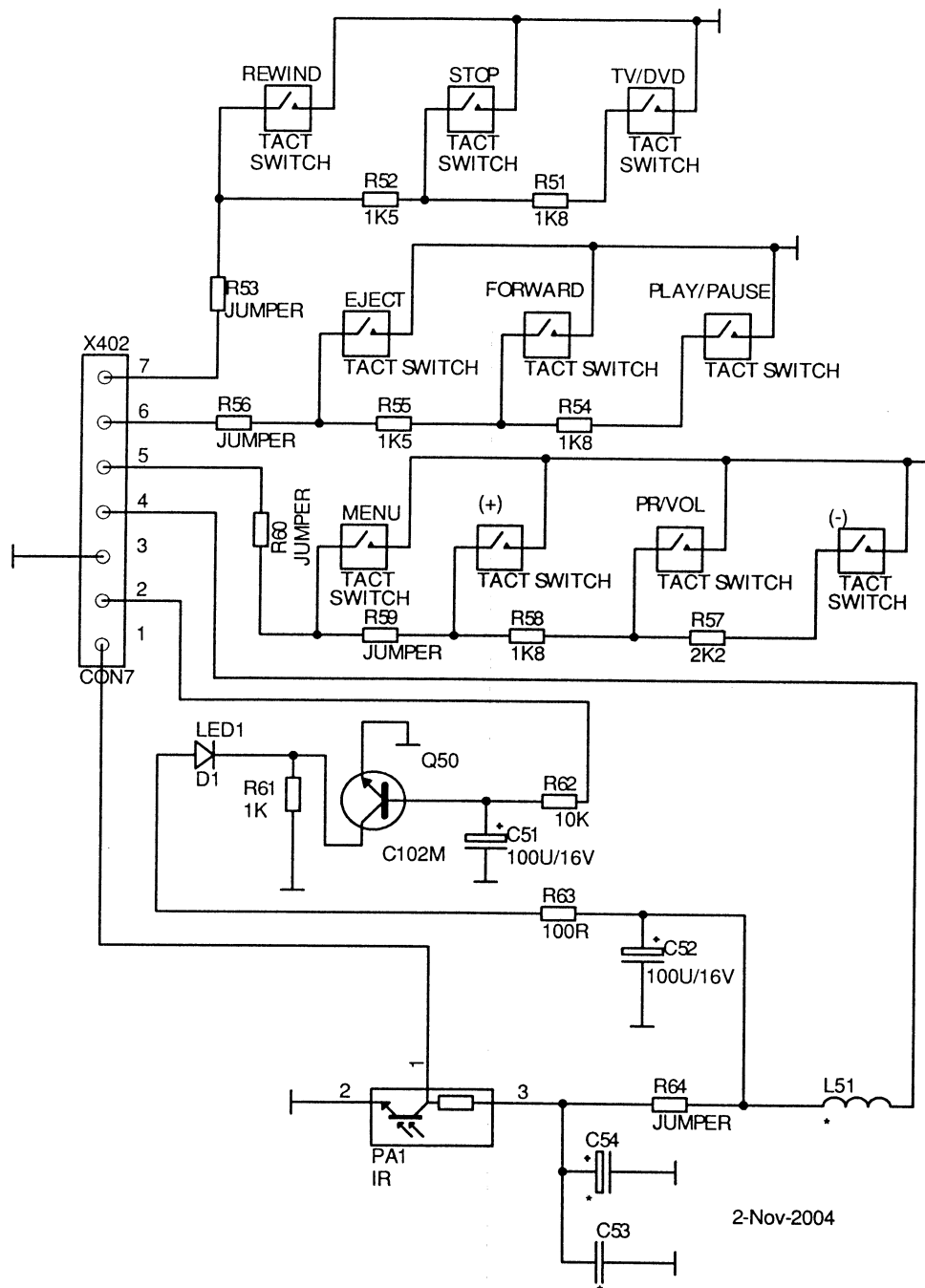
ZL5.191 - Bedienplatte / Keyboard



ZL5.195 - Bedienplatte / Keyboard

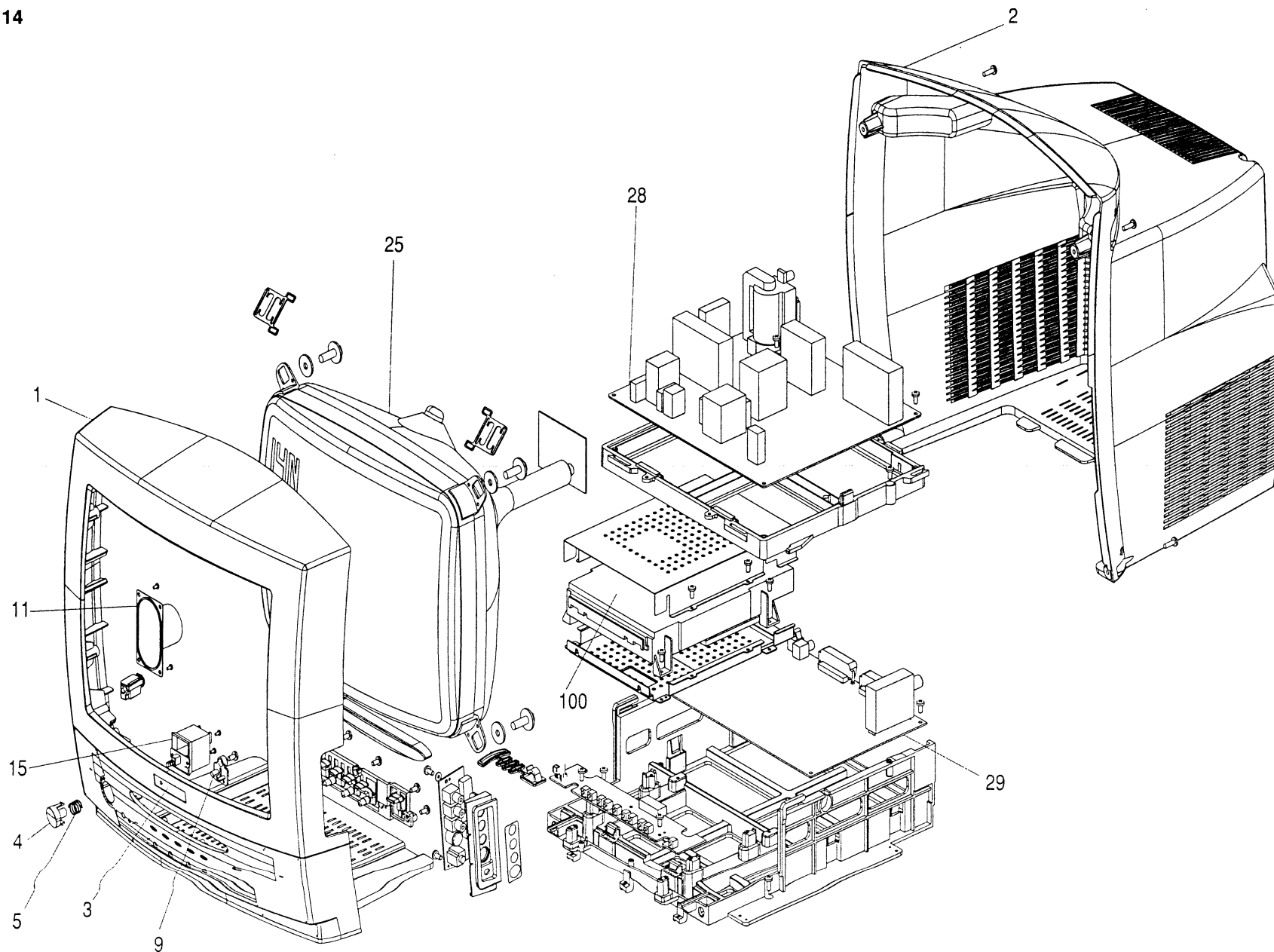


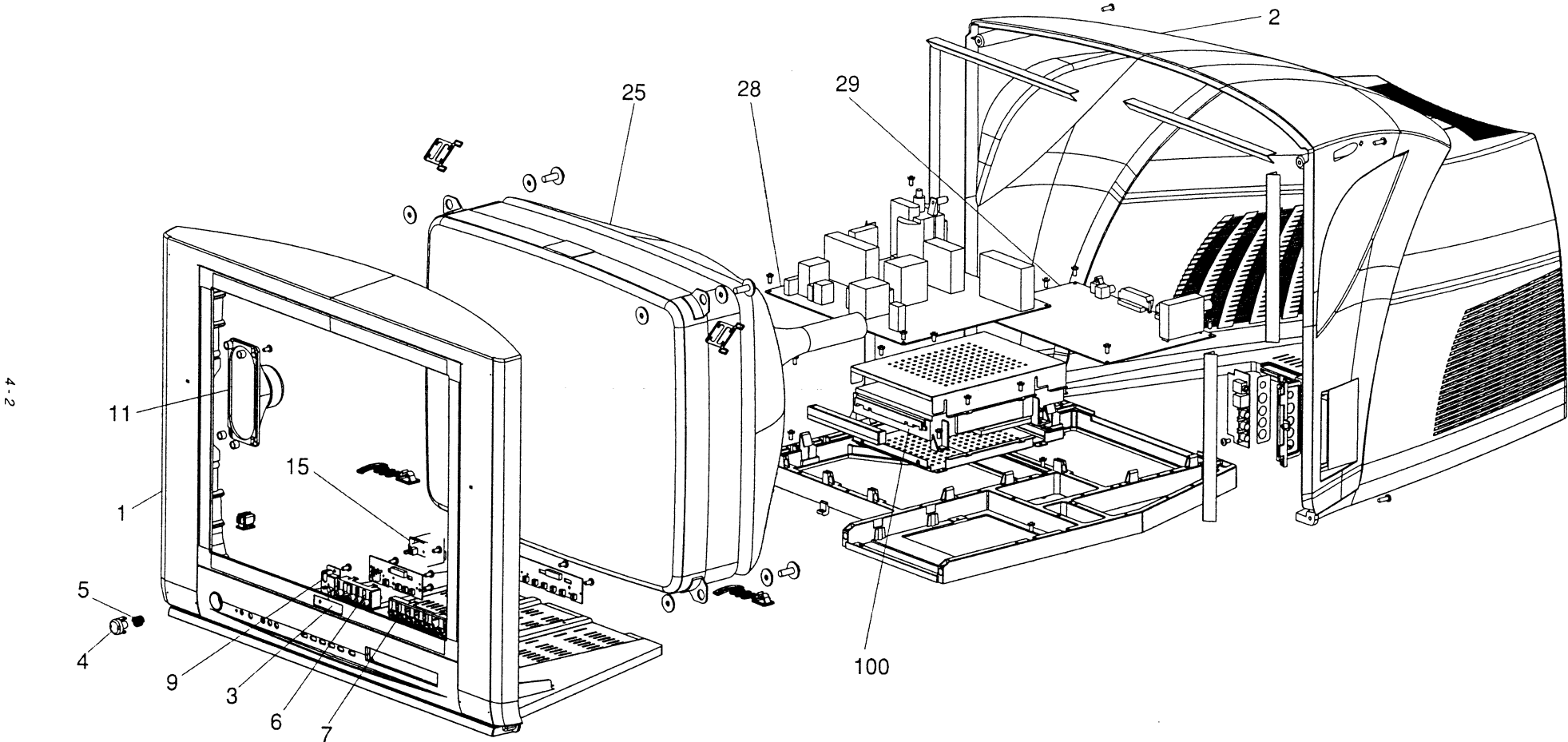
ZL6.191 - Bedienplatte / Keyboard



Explosionszeichnungen und Ersatzteillisten / Exploded Views and Spare Parts Lists

Davio 14





GRUNDIG

Ersatzteilliste
Spare Parts List

TV

12 / 2004

DAVIO 14 TVD 37-2401 TEXT

ERSETZT AUSGABE 10/2004
SUBSTITUTE EDITION 10/2004

MATERIAL-NR. / PART NO.: 720126008500
BESTELL-NR. / ORDER NO.: GBC3200

POS. NR. ABB. MATERIAL-NR. ANZ.
POS. NO. FIG. PART NUMBER QTY.

BEZEICHNUNG
(D)

DESCRIPTION
(GB)

		720126008500		DAVIO 14 TVD 37-2401 TEXT KEIN E-TEIL	DAVIO 14 TVD 37-2401 TEXT NO SPARE PART
0001.000		759551057600		FRONTRAHMEN	FRONT FRAME
0002.000		759551054900		RUECKWAND	BACK COVER
0003.000		759550947700		GRUNDIG LOGO	GRUNDIG LOGO
0004.000		759551054700		NETZTASTENKNOPF	KNOB POWER
0005.000		759550925300		FEDER KNOPF NETZ	SPRING KNOB POWER
0006.000		759551054800		KNOPF PROG. / LAUTST.	KNOB PRG/VOLUME
0008.000		759550451400		TASTSCHALTER	KEY SWITCH
0009.000		759551057200		IR LINSE	IR LENS
0010.000		759551055000		SEITENABDECKUNG SILBER	COVER SIDE SILVER
0011.000		759551054200		LAUTSPRECHER 8OHM 5W 70X40	SPEAKER 8OHM 5W 70X40
0012.000		759551054300		KOPFHÖRERBUCHSE	HEADPHONE JACK
0013.000		759550989500		ENTMAGNETISIERUNGSSPULE 14"	DEGAUSSING COIL 14"
0014.000	△	759550450200		NETZKABEL M.DR.2,3M	POWER CABLE
0015.000	△	759550978300		NETZSCHALTER ESZ92D21B	POWER SWITCH ESZ92D21B
0025.000	△	759550454600		BILDR.A34EAC01X06DY-BRZ PH	PICT.TUBE A34EAC01X06DY-BRZ PH
0026.000	△	759550989300		BILDROEHRENSOCKEL	TUBE SOCKET
0027.000		759551059300		TP 165 C (RC 45 C)	TP 165 C (RC 45 C)
0027.100		759551060200		BATTERIEFACHDECKEL	BATTERY DOOR
0028.000	△	275990132500	X	LP-CHASSISMODUL D5 14" KEIN E-TEIL	CHASSISBOARD D5 14" NO SPARE PART
0029.000		275990135200	X	LP-VIDEOMODUL D5 14" KEIN E-TEIL	VIDEOBOARD D5 14" NO SPARE PART
0030.000		275990135300	X	LP-BILDROHRMODUL D5 14" KEIN E-TEIL	CRT-BOARD D5 14" NO SPARE PART
0100.000	△	759551055100		DVD LAUFWERK MIT MPEG-MODUL	DVD COMBOLOADER + MPEG BOARD
		720117082000		BEDIENUNGSANLEITUNG D/GB/NL	INSTRUCTION MANUAL D/GB/NL
		720117082100		BEDIENUNGSANLEITUNG DK/S/N	INSTRUCTION MANUAL DK/S/N
		720117082200		BEDIENUNGSANLEITUNG E/P/FIN	INSTRUCTION MANUAL E/P/FIN
		720100488000		SERVICE MANUAL CHASSIS D5 D/GB	REPAIR MANUAL CHASSIS D5 D/GB
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

GRUNDIG

Ersatzteilliste
Spare Parts List

TV

10 / 2004

ELEGANCE 21 FLAT TVD 55-2401/5 TEXT

MATERIAL-NR. / PART NO.: 720126008600
BESTELL-NR. / ORDER NO.: GBC3300

POS. NR. ABB. MATERIAL-NR. ANZ.
POS. NO. FIG. PART NUMBER QTY.

BEZEICHNUNG
(D)

DESCRIPTION
(GB)

		720126008600		ELEGANCE 21 FLAT TVD 55-2401/5 TEXT KEIN E-TEIL	ELEGANCE 21 FLAT TVD 55-2401/5 TEXT NO SPARE PART
0001.000		759551057700		FRONTRAHMEN	FRONT FRAME
0002.000		759551059200		RUECKWAND	BACK COVER
0003.000		759550947700		GRUNDIG LOGO	GRUNDIG LOGO
0004.000		759551057000		NETZTASTENKNOPF	KNOB POWER
0005.000		759551057500		FEDER KNOPF	SPRING KNOB
0006.000		759551057100		KNOPF PROG./LAUTST. DVD	KNOB PRG/VOLUME DVD
0007.000		759551057400		KNOPF PROG./LAUTST. TV	KNOB PRG/VOLUME TV
0008.000		759551057800		TASTSCHALTER	KEY SWITCH
0009.000		759551057300		IR LINSE	IR LENS
0010.000		759550976000		BUCHSENABDECKUNG	COVER JACK
0011.000		759550950500		LAUTSPRECHER 8 OHM 7 W	SPEAKER 8 OHM 7 W
0012.000		759551057900		KOPFHÖRERBUCHSE YKB21-5103	HEADPHONE JACK YKB21-5103
0013.000	△	759550456500		SPULE ENTMAGNETISIERUNG 21"	COIL DEGAUSSING 21"
0014.000	△	759550450200		NETZKABEL M.DR.2,3M	POWER CABLE
0015.000	△	759550978300		NETZSCHALTER ESZ92D21B	POWER SWITCH ESZ92D21B
0025.000	△	759550947900		BILDR. VC A51ELD032X001	PICT. TUBE VC A51ELD032X001
0026.000	△	759550581000		BILDROHRFASSUNG ISHMOSS	CRT SOCKET ISHMOSS
0027.000		759551059300		TP 165 C (RC 45 C)	TP 165 C (RC 45 C)
0027.100		759551060200		BATTERIEFACHDECKEL	BATTERY DOOR
0028.000	△	275990132400	X	LP-CHASSISMODUL D5 21" KEIN E-TEIL	CHASSISBOARD D5 21" NO SPARE PART
0029.000		275990135100	X	LP-VIDEOMODUL D5B 21" KEIN E-TEIL	VIDEO BOARD D5 21" NO SPARE PART
0030.000		275990135400	X	LP-BILDROHRMODUL D5 21" KEIN E-TEIL	CRT-BOARD D5 21" NO SPARE PART
0100.000	△	759551055100		DVD LAUFWERK MIT MPEG-MODUL	DVD COMBOLOADER + MPEG BOARD
		720117081500		BEDIENUNGSANLEITUNG D/GB/NL	INSTRUCTION MANUAL D/GB/NL
		720117081600		BEDIENUNGSANLEITUNG DK/S/N	INSTRUCTION MANUAL DK/S/N
		720117081700		BEDIENUNGSANLEITUNG E/P/FIN	INSTRUCTION MANUAL E/P/FIN
		720100488000		SERVICE MANUAL CHASSIS D5 D/GB	REPAIR MANUAL CHASSIS D5 D/GB
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts List

1 / 2005

ERSETZT AUSGABE 10/2004
SUBSTITUTE EDITION 10/2004

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION
			(D)	

275990132500

LP-CHASSISMODUL D5 14"
KEIN E-TEILCHASSISMODUL D5 14"
CHASSISBOARD D5 14"

MATERIAL-NR. / PART NO.: 275990132500

DESCRIPTION
(GB)

CHASSISBOARD D5 14"
NO SPARE PART

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
----------------------	-----------------------------	----------------------------

C 54	759550949200	ELKO 10 UF/16V
C 524	759551088500	KONDENS. 6.8NF %3.5 1.5/1.6KV
C 528	759551088600	KONDENS. 390N 400V 5%
C 601	759550949300	KONDES. 220 NF/275 V AC
C 610	759880450800	KONDENS. 2.2nF 20% 250V

D 01	759551054400	LED IR SIR563SB3F 23/940
D 02	759551054500	LED LTL4221N D:3 R/D RED
D 501	759551052900	DIODE 1N4005
D 502	833021514800	MELF DIODE 1N4148
D 503	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 504	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 521	830956550700	DIODE RGP10J/1N4937 MOT/GP

D 522	759880511100	DIODE RGP15J
D 525	833021514800	MELF DIODE 1N4148
D 601	759551053000	DIODE BYV26A-TAP
D 602	759551053000	DIODE BYV26A-TAP
D 603	833021514800	MELF DIODE 1N4148
D 621	830956550700	DIODE RGP10J/1N4937 MOT/GP

D 622	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 623	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 624	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 626	759551049400	DIODE SFAF504G
D 627	759551052500	DIODE BYW36-TAP
D 628	759551052500	DIODE BYW36-TAP
D 629	833021514800	MELF DIODE 1N4148
D 630	833021514800	MELF DIODE 1N4148
D 631	830956550700	DIODE RGP10J/1N4937 MOT/GP

DB 601 759551049900 DIODE G2SBA60

DSL 820 759551055100 DVD LAUFWERK MIT MPEG-MODUL

F 601 759550922700 SICHERUNG 3.15AT

IC 01	759551054600	IC S3C1840DA9/SMB1 T&R
IC 301	759551053400	IC TDA7266S
IC 303	759551048800	IC KIA7042P AP 4.2V
IC 501	759551052600	IC LA7840
IC 601	759551048900	IC LF1352 STR-F6654R
IC 621	759551049000	IC KIA278R05PI
IC 623	759551049100	IC KIA278R33API
IC 624	759551049000	IC KIA278R05PI
IC 625	759551049500	IC KIA278R09PI

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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IC 626	759551049300	IC KIA78R08API
IC 627	759551049200	IC SE110N LF12
IC 628	759551052700	OPTOKOPPLER TCET1108G

IR 1 759550969900 TRANS TSOP34838 SS1A

L 191	759550452000	SPULE 50MHZ 600RPH-WB
L 192	759550452000	SPULE 50MHZ 600RPH-WB
L 302	759880625600	SPULE 22 UH
L 522	759551053300	SPULE 60UH
L 621	759551052800	SPULE 100UH 53.5T R:7.5MM

LED 1 759550962600 LED LTL4224 ROT

PT 601 759550457500 PTC 90HM 2PIN (R607)

Q 50 759551048700 TRANS KRC102M TP (KRC1202)

R603 759551088200 SICHERWIDERST. 8 2M J 1/2W

RL 601 759550572300 RELAY SDT-S-105LMR 5V

SW 759550451400 TASTSCHALTER

T 01	830220018800	TRANS BC337-25 SIE/PHI/TFK/
T 02	830100685700	SMD-TRANS BC 857 C
T 301	759880512900	TRANS KTC3198Y
T 501	759551049600	TRANS A1980Y
T 521	7595510451600	TRANS KSC 2331 Y
T 522	759880513100	TRANS T2SD2499
T 523	759880512900	TRANS KTC3198Y
T 621	7595510451600	TRANS KSC 2331 Y *M20
T 622	759880512900	TRANS KTC3198Y
T 623	759551013200	TRANS BF 421
T 624	759551048700	TRANS KRC102M TP (KRC1202)

TR 501	759551053200	TRAFO DST50004 14"
TR 522	759551053100	TRAFO 6170VC003A 21"
TR 602	759551053500	TRAFO 14" SMT50006
TR 603	759551049800	TRAFO STANDBY SMT50004
TR 604	759550945600	FILTER 18 MH

VD 601 759551049700 VARISTOR ILJIN 621D-14A 620

VR 601 759550927600 ESTR 10K

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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X 601	759550966400	STECKER 2 POL.
X 901	759551054300	KOPFHOERERBUCHSE

ZD 194	759540390700	Z-DIODE BZX55-C6V2
ZD 301	759540390700	Z-DIODE BZX55-C6V2
ZD 521	759550453400	Z-DIODE UZT33V
ZD 522	759540390700	Z-DIODE BZX55-C6V2
ZD 523	759550923400	DIODE BZX55C9V1
ZD 524	830972008200	Z DIODE 8.2 C 0.5W

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

Ersatzteilliste
Spare Parts List

TV

10 / 2004

LP-CHASSISMODUL D5 21
CHASSISBOARD D5 21

MATERIAL-NR. / PART NO.: 275990132400

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (D)
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275990132400

LP-CHASSISMODUL D5 21*
KEIN E-TEILCHASSISBOARD D5 21*
NO SPARRER PART

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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C 54	759550949200	ELKO 10 UF/16V
C 524	759551088300	KONDENS. 7.2NF %3.5 1600V
C 528	759551088400	KONDENS. 270NF J 250V R:15
C 601	759550949300	KONDENS. 220 NF/275 V AC
C 610	759880450800	KONDENS. 2.2nF 20% 250V

D 01	759551054400	LED IR SIR563SB3F 23/940
D 02	759551054500	LED LTL4221N D:3 R/D RED
D 501	759551052900	DIODE 1N4005
D 502	833021514800	MELF DIODE 1N4148
D 503	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 504	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 521	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 522	759880511100	DIODE RGP15J
D 525	833021514800	MELF DIODE 1N4148
D 601	759551053000	DIODE BYV26A-TAP
D 602	759551053000	DIODE BYV26A-TAP
D 603	833021514800	MELF DIODE 1N4148
D 621	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 622	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 623	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 624	830956550700	DIODE RGP10J/1N4937 MOT/GP
D 626	759551049400	DIODE SFAF504G
D 626	759551049400	DIODE SFAF504G
D 627	759551052500	DIODE BYW36-TAP
D 628	759551052500	DIODE BYW36-TAP
D 629	833021514800	MELF DIODE 1N4148
D 630	833021514800	MELF DIODE 1N4148
D 631	830956550700	DIODE RGP10J/1N4937 MOT/GP

DB 601	759551049900	DIODE G2SBA60
DSL 820	759551055100	DVD LAUFWERK MIT MPEG-MODUL
F 601	759550922700	SICHERUNG 3.15AT
FR 521	759550542900	WIDERST 0,1 OHM J 0,75W

IC 01	759551054600	IC S3C1840DA9-SMB1 T&R
IC 301	759551056300	IC TDA7266
IC 303	759551048800	IC KIA7042P AP 4.2V
IC 501	759551052600	IC LA7840
IC 601	759551048900	IC LF1352 STR-F6654R
IC 621	759551049000	IC KIA278R05PI
IC 623	759551049100	IC KIA278R33API
IC 624	759551049000	IC KIA278R05PI
IC 625	759551049500	IC KIA278R09PI
IC 626	759551049300	IC KIA78R08API

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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IC 627	759551049200	IC SE110N LF12
IC 628	759551052700	OPTOKOPPLER TCET1108G
L 302	759880625600	SPULE 22 UH
L 521	759551056700	SPULE 130UH 0.45PY 55.5TUR
L 523	759551056800	SPULE H-LIN 100UH
L 621	759551052800	SPULE 100UH 53.5T R:7.5MM

LED 1	759550931600	LED ROT
PT 601	759550457500	PTC 90HM 2PIN (R607)
Q 50	759551048700	TRANS KRC102M TP (KRC1202)
R 603	759551088200	SICH.-WIDERST.8.2M J 1/2W
RL 601	759550572300	RELAY SDT-S-105LMR 5V
T 01	830220018800	TRANS BC337-25 SIE/PHI/TFK/
T 02	830100685700	SMD-TRANS BC 857 C
T 301	759880512900	TRANS KTC3198Y
T 501	759551049600	TRANS A1980Y
T 521	759510451600	TRANS KSC 2331 Y
T 522	759880513100	TRANS T2SD2499
T 523	759880512900	TRANS KTC3198Y
T 621	759510451600	TRANS KSC 2331 Y
T 622	759880512900	TRANS KTC3198Y
T 623	759551013200	TRANS BF 421
T 624	759551048700	TRANS KRC102M TP (KRC1202)

TR 501	759551056500	TRAFO DST50005 21*
TR 522	759551053100	TRAFO 6170VC003A 21*
TR 602	759551056400	TRAFO 21* SMT50007
TR 603	759551049800	TRAFO STANDBY SMT50004
TR 604	759550945600	FILTER 18 MH

VD 601	759551049700	VARISTOR ILJIN 621D-14A 620
VR 601	759550927600	ESTR 10K

X 601	759550966400	STECKER 2 POL.
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ZD 194	759540390700	Z-DIODE BZX55-C6V2
ZD 301	759540390700	Z-DIODE BZX55-C6V2
ZD 521	759550453400	Z-DIODE UZT33V
ZD 522	759540390700	Z-DIODE BZX55-C6V2
ZD 523	759550923400	DIODE BZX55CV1
ZD 524	830972008200	Z-DIODE 8,2 C 0,5W

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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Ersatzteilliste
Spare Parts List

TV

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LP-VIDEOMODUL D5 14"
VIDEOBOARD D5 14"

MATERIAL-NR. / PART NO.: 275990135200

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (D)
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275990135200

LP-VIDEOMODUL D5 14*
KEIN E-TEILVIDEOBOARD D5 14*
NO SAPRE PART

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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D 101	830921504500	DIODE 1N4148 AV619-GA
D 102	833021514800	MELF DIODE 1N4148
D 104	833021514800	MELF DIODE 1N4148
F 101	759550950100	FILTER MKT 40.4MA110P-TF01
F 102	759550921100	FILTER OFW K9656M
F 103	759551053600	SAW FILTER OFW K3958M
F 104	759550951800	FILTER TPT02B

IC 101	759551054100	IC OM8365 (96K) T&R
IC 102	759551053700	IC MC33269T-3.3V
IC 160	830584860100	SMD IC TDA8601T-C1-T3 PHI
IC 201	759551056900	IC CXA2040AQ4 QFP32P
IC 203	759550446600	IC TDA7442D
IC 401	759550542200	SMD IC M24C08N SC2.7

L 105	759813083500	DR 0207 10UH 5% AX
L 106	759813083500	DR 0207 10UH 5% AX
L 107	759813083500	DR 0207 10UH 5% AX
L 108	759813083500	DR 0207 10UH 5% AX
L 109	759880481000	SPULE 8.2UH 10%
L 160	759813083500	DR 0207 10UH 5% AX
L 191	759550452000	SPULE 50MHZ 600RPH-WB
L 192	759550452000	SPULE 50MHZ 600RPH-WB
L 201	759813083500	DR 0207 10UH 5% AX
L 202	759813083500	DR 0207 10UH 5% AX
L 203	759813083500	DR 0207 10UH 5% AX
L 204	759813083500	DR 0207 10UH 5% AX
L 210	759813083500	DR 0207 10UH 5% AX
L 260	759813083500	DR 0207 10UH 5% AX
L 290	759813083500	DR 0207 10UH 5% AX

Q 401	759550944800	QUARZ 12 MHZ
SCART1	759550922900	EURO AV BUCHSE

T 102	759551054000	TRANS KRC102S
T 103	759551054000	TRANS KRC102S
T 104	759551054000	TRANS KRC102S
T 105	759551054000	TRANS KRC102S
T 106	759551053900	TRANS 2SC3875S
T 107	759551053900	TRANS 2SC3875S
T 108	759551053900	TRANS 2SC3875S
T 109	759551054000	TRANS KRC102S

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

TV

Ersatzteilliste
Spare Parts List

1 / 2005

LP-VIDEOMODUL D5 21"
VIDEO BOARD D5 21"

MATERIAL-NR. / PART NO.: 275990135100

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (D)
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275990135100		LP-VIDEOMODUL D5 21"		KEIN E-TEIL
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POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (GB)
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		VIDEO BOARD D5 21"		NO SPARE PART
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POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
C 113	759550949200	ELKO 10 UF/16V
C 131	759550949200	ELKO 10 UF/16V
C 133	759550949200	ELKO 10 UF/16V
C 232	759550949200	ELKO 10 UF/16V
C 239	759550949200	ELKO 10 UF/16V
C 241	759550949200	ELKO 10 UF/16V
C 248	759550949200	ELKO 10 UF/16V
C 249	759550949200	ELKO 10 UF/16V
C 265	759550949200	ELKO 10 UF/16V
C 290	759550949200	ELKO 10 UF/16V
C 407	759550949200	ELKO 10 UF/16V
D 101	830921504500	DIODE 1N4148 AV619 -GA
D 102	833021514800	MELF DIODE 1N4148
D 104	833021514800	MELF DIODE 1N4148
F 101	759550950100	FILTER MKT 40.4MA110P-TF01
F 102	759550921100	FILTER OFW K9656M
F 103	759551053600	SAW FILTER OFW K3958M
F 104	759550951800	FILTER TPT02B
IC 101	759551054100	IC OM8365 (96K) T&R
IC 102	759551053700	IC MC33269T-3.3V
IC 160	830584860100	SMD IC TDA8601T-C1-T3 PHI
IC 201	759551056900	IC CXA2040AQ4 QFP32P
IC 202	759880683500	IC MSP3410G-B8
IC 401	759550542200	SMD IC M24C08N SC2.7
L 105	759813083500	DR 0207 10UH 5% AX
L 106	759813083500	DR 0207 10UH 5% AX
L 107	759813083500	DR 0207 10UH 5% AX
L 108	759813083500	DR 0207 10UH 5% AX
L 109	759880481000	SPULE 8.2UH 10%
L 160	759813083500	DR 0207 10UH 5% AX
L 201	759813083500	DR 0207 10UH 5% AX
L 202	759813083500	DR 0207 10UH 5% AX
L 203	759813083500	DR 0207 10UH 5% AX
L 204	759813083500	DR 0207 10UH 5% AX
L 206	759813083500	DR 0207 10UH 5% AX
L 207	759813083500	DR 0207 10UH 5% AX
L 208	759813083500	DR 0207 10UH 5% AX
L 209	759813083500	DR 0207 10UH 5% AX
L 210	759813083500	DR 0207 10UH 5% AX

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
L 211	759813083500	DR 0207 10UH 5% AX
L 212	759813083500	DR 0207 10UH 5% AX
L 213	759813083500	DR 0207 10UH 5% AX
L 214	759813083500	DR 0207 10UH 5% AX
L 215	759813083500	DR 0207 10UH 5% AX
L 261	759904001800	SPULE 18UH 5% LAL04 AX
L 262	759904001800	SPULE 18UH 5% LAL04 AX
L 263	759904001800	SPULE 18UH 5% LAL04 AX
L 290	759813083500	DR 0207 10UH 5% AX
Q 201	759550926200	QUARZ 18.432 MHZ
Q 401	759550944800	QUARZ 12 MHZ
SCART 1	759550922900	EURO AV BUCHSE
SCART 2	759550922900	EURO AV BUCHSE
T 102	759551054000	TRANS KRC102S
T 103	759551054000	TRANS KRC102S
T 104	759551054000	TRANS KRC102S
T 105	759551054000	TRANS KRC102S
T 106	759551053900	TRANS 25C3875S
T 107	759551053900	TRANS 25C3875S
T 108	759551053900	TRANS 25C3875S
T 109	759551054000	TRANS KRC102S
T 160	759551053800	TRANS 25A1504S
T 161	759551053800	TRANS 25A1504S
T 162	759551053800	TRANS 25A1504S
T 163	759551053900	TRANS 25C3875S
T 164	759551053900	TRANS 25C3875S
T 165	759551053900	TRANS 25C3875S
T 201	759551053800	TRANS 25A1504S
T 202	759551053800	TRANS 25A1504S
T 203	759551053800	TRANS 25A1504S
T 204	759551053800	TRANS 25A1504S
T 270	759880513300	TRANS KTA1266Y (TP)
T 271	759880513300	TRANS KTA1266Y (TP)
T 272	759880513300	TRANS KTA1266Y (TP)
T 273	759880513300	TRANS KTA1266Y (TP)
T 401	759551054000	TRANS KRC102S
TUNER	759550921600	TUNER PH PLL UV1316/AIG-4

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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Ersatzteilliste
Spare Parts List

1 / 2005

LP-BILDROHRMODUL D5 14"
CRT-BOARD D5 14"

MATERIAL-NR. / PART NO.: 275990135300

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (D)
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275990135300		LP-BILDROHRMODUL D5 14"		KEIN E-TEIL
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POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (GB)
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		CRT-BOARD D5 14"		NO SPARE PART
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POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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C 702	759550949500	KONDENS 100NF/250 V
D 701	830920002100	DIODE BAV21 ITT/ TFK AV619
D 702	830920002100	DIODE BAV21 ITT/ TFK AV619
D 703	830920002100	DIODE BAV21 ITT/ TFK AV619
D 704	759550975100	DIODE 1 N 4004

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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IC 701	830533610800	IC TDA6108JF SOT111-1 PHI
X 703	759550989300	BILDROHRENSOCKEL
ZD 704	830972007500	Z-DIODE 7.5V/BZW SIE/ZPY IT

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Ersatzteilliste
Spare Parts List

1 / 2005

LP-BILDROHRMODUL D5 21"
CRT-BOARD D5 21"

MATERIAL-NR. / PART NO.: 275990135400

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (D)
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275990135400		LP-BILDROHRMODUL D5 21"		KEIN E-TEIL
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POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION (GB)
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		CRT-BOARD D5 21"		NO SPARE PART
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POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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C 702	759550949500	KONDENS 100NF/250 V
D 701	830920002100	DIODE BAV21 ITT/ TFK AV619
D 702	830920002100	DIODE BAV21 ITT/ TFK AV619
D 703	830920002100	DIODE BAV21 ITT/ TFK AV619
D 704	759550975100	DIODE 1 N 4004

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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IC 701	830533610800	IC TDA6108JF SOT111-1 PHI
X 703	759550581000	BILDROHRFASSUNG ISHMO5S
ZD 704	830972007500	Z-DIODE 7.5V/BZW SIE/ZPY IT

FR 701	759550458400	WIDERST 0,68OHM1W
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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION